

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.:

Agency Interest No. 286
Activity No.PER20080005

Mr. D. L. Schuessler
Site Manager
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
P.O. Box 241
Baton Rouge, LA 70821-0241

RE: Operating permit modification, Maintrain Ethylene Production Facilities, Baton Rouge Chemical Plant, ExxonMobil Chemical Company, Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Schuessler:

This is to inform you that the Part 70 operating permit for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the application submitted and the approval in no way relieves of the applicant of the obligation to comply with all applicable requirements.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 28th of December, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2008

Permit No.: 2031-V7

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

CSN:CXL
cc: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Maintrain Ethylene Production Facilities

Baton Rouge Chemical Plant

Agency Interest No. 286

ExxonMobil Chemical Company

Baton Rouge, East Baton Rouge Parish, Louisiana

I. BACKGROUND

ExxonMobil Chemical Company (ExxonMobil) owns and operates a chemical manufacturing complex, the Baton Rouge Chemical Plant (BRCP). The Maintrain Ethylene Production Facilities (Maintrain) currently operate under Permit No. 2031-V6, issued on July 6, 2007.

II. ORIGIN

A permit application dated July 10, 2008, along with supplemental information dated August 5 & September 23, 2008, was submitted requesting a modification of the Part 70 operating permit for Maintrain Ethylene Production Facilities.

III. DESCRIPTION

Ethylene Production

The main function of Maintrain is to produce ethylene. The ethylene is produced by high temperature pyrolysis of liquid and/or gas petroleum fractions in tubular cracking furnaces and recovered in downstream distillation operations. Various other coproducts are also produced in the tubular steam-cracking furnaces. These coproducts include, but are not limited to, hydrogen, methane, ethane, propylene, dilute isoprene, steam-cracked naphtha, steam cracked gas oil, and tar. The feedstocks to the cracking furnaces are various petroleum fractions from either the adjacent ExxonMobil Baton Rouge Refinery (BRRF) or from outside sources.

Distillation and/or cryogenic processes separate the products that are formed in the cracking furnaces. The product ethylene and various coproducts are routed via pipelines to third parties or to other units at BRCP or BRRF, or potentially exported via the BRRF marine loading dock on the Mississippi River. In addition to the effluent from the cracking furnaces, the distillation separation facilities may be fed material from outside sources as well as from other BRCP process units.

Caustic scrubbing and various filters, molecular sieves, adsorbents, or catalysts are used to remove water or other impurities from some of the process streams. The spent caustics from these scrubbing and other scrubbing operations at BRCP are either oxidized in the Sulfidic Caustic Operations (SCOLA) Unit for reuse, or shipped out to other facilities that use the sulfidic caustics as raw materials in their processes.

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Agency Interest No. 286

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Sulfidic Caustic Operations (SCOLA)

The SCOLA Unit is operated to disposition the spent sulfidic caustics that are generated from the caustic scrubbing operation in Maintain, and other units at BRCP and BRRF. These spent caustics are either shipped out to external customers for use as raw materials, or processed by the SCOLA Unit for oxidation. At the SCOLA, the sodium sulfide and sodium mercaptide in spent caustics are oxidized into sodium thiosulfate and hydrocarbon disulfides.

This oxidation process uses steam and hot air. The resulting vapors containing hydrocarbon disulfides (i.e. dimethyl disulfide, methyl-ethyl disulfide, diethyl disulfide) are controlled with the SCOLA Thermal Oxidizer (Emission Point No. S-86). The oxidized caustic is then reused at BRRF.

Dilute Isoprenes Production (DILA)

The DILA Unit produces isoprene through a series of fractionation steps and extractive distillation. The feed to this unit comes from Maintain. The first two distillation steps in the DILA Unit are now included in the Maintain permit. The resulting dilute isoprenes are sold to external customers for further purification. The remaining sources in the DILA became part of the Coproducts Units Title V Permit (2367-V0) which was issued February 17, 2006.

Project Description

BRCP proposed to increase the number of tubes in the SACC H furnace (EQT 691; S-08; OLA-2X Steam Cracking Furnace HF-01) allow the processing of more economical feeds.

Project emission changes from the affected sources in tons per year are as follows:

	SACC H OLA-2X furnace	Gas Turbine NG-01	Decoking Drum Vent	Project Emission Increases
	S-08	S-09	S-102	
PM ₁₀	2.53	0.35	0.28	3.16
SO ₂	0.06	0.01	0.01	0.08
CO	27.96	3.56	2.56	34.08
NO _x	20.74	10.93	-	31.67
VOC	1.84	0.11	-	1.95

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AIR PERMITS DIVISION
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**Maintrain Ethylene Production Facilities
Baton Rouge Chemical Plant
Agency Interest No. 286
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The project increases were determined by calculating the maximum expected increase in furnace firing rate due to the installation of additional tubes on the SACC H furnace (Emission Point No. S-08) and the impact of additional utilization of the Gas Turbine NG-01 (Emission Point No. S-09) and the Decoking Drum Vent (Emission Point No. S-102). The NO_x emission increase associated with the project, without regard to any decrease, is greater than 25 TPY, thus a netting analysis is required.

A netting analysis is to determine the creditable increases and decreases in actual emissions during the contemporaneous period. The contemporaneous period is the period which includes the calendar year in which the proposed increase will occur, and the preceding four consecutive calendar years. An increase or decrease in actual emissions is creditable only if the Department has not previously relied on it in issuing a permit. The contemporaneous netting window for this project is January 1, 2004 to 4th quarter 2008.

<u>Pollutant</u>	<u>Project Increases</u>	<u>Net Emission Increases</u>	<u>NNSR Significant Net Emission Increase</u>
PM ₁₀	3.16	NA	15
SO ₂	0.08	NA	40
CO	34.08	NA	100
NO _x	31.67	-39.43	25
VOC	1.95	76.90	25

A netting analysis of the contemporaneous period shows a decrease of 39.43 TPY in NO_x emissions. Thus the project nets out of Non-Attainment New Source Review (NNSR) for NO_x.

A netting analysis of the contemporaneous period shows an increase of 76.90 TPY in VOC emissions. BRCP cannot net out of NNSR for VOCs. The VOC emission increase of 1.95 TPY will be offset with internal offsets at a ratio of 1.5 to 1 for a total of 2.93 tons. LAER is not required since the increase is offset at a higher ratio. BRCP's 2.93 tons banked Emission Reduction Credits (ERC) will be used for the offset.

Hurricane Gustav resulted in process disruptions that impacted project execution schedules. The shutdown of the RGR gas turbine that generates the necessary NO_x reduction for this project to net out is delayed until the first half of 2009. BRCP will start to install the additional tubes on SACC H as soon as the permit is approved, with an enforceable condition to demonstrate that the emissions increase shall not occur until after the necessary NO_x credits are generated.

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AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Baton Rouge Chemical Plant
Agency Interest No. 286
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

Estimated emissions from Maintain Ethylene Product Facilities in tons per year are as follows:

Pollutant	Permitted	Proposed	Change
PM ₁₀	240.70	240.70	-
SO ₂	11.47	11.47	-
NO _x	1551.78	1551.78	-
CO	1592.92	1592.92	-
VOC	251.95	251.95	-

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
1,3-Butadiene	3.55	3.55	-
Acetonitrile	0.01	0.01	-
Benzene	9.51	9.51	-
Biphenyl	0.10	0.10	-
Cresol	0.18	0.18	-
Cumene	0.28	0.28	-
Ethyl Benzene	6.12	6.12	-
Methanol	0.87	0.87	-
Methyl Ethyl Ketone	0.08	0.08	-
Methyl Isobutyl Ketone	0.06	0.06	-
Methyl Tertiary Butyl Ether	0.01	0.01	-
n-Butyl Alcohol	0.02	0.02	-
n-Hexane	10.55	10.55	-
Naphthalene	0.91	0.91	-
Phenol	0.15	0.15	-
Polynuclear Aromatic Hydrocarbons	<0.01	<0.01	-
Styrene	1.67	1.67	-
Toluene	6.03	6.03	-
Xylene (mixed isomers)	4.99	4.99	-
Total	53.88	53.88	
Other VOC (TPY):		198.07	

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ExxonMobil Chemical Company

Baton Rouge, East Baton Rouge Parish, Louisiana

IV. TYPE OF REVIEW

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) review does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. CREDIBLE EVIDENCE

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. PUBLIC NOTICE

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, Louisiana on August XX, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on August XX, 2008. The draft permit was also submitted to US EPA Region VI. XX comment was received.

VII. Effects on Ambient Air

Emissions were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. The proposed project did not require the applicant to model emissions.

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AIR PERMITS DIVISION
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**Maintain Ethylene Production Facilities
Baton Rouge Chemical Plant
Agency Interest No. 286
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VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - TPY				
		PM ₁₀	SO ₂	NO _x	CO	VOC
Sampling Emissions	9,500 per year				0.60	0.1
Mechanical and Shop Emissions	Varies based on need				4.9	0.1
Equipment and Analyzer Preparation & Swaps	Varies based on need				5.0	0.1
Decoking Operations	Varies based on need				0.6	0.1
Maintenance Activities	Varies based on need				4.6	0.1
Exchanger Cleaning	32 per year					0.11

IX. Insignificant Activities

ID No.:	Description	Citation
	Unit Tanks(<250 gals, TVP≤ 3.5 psia)	Insignificant Activity per LAC 33:III.501.B.5.A.2.
	Unit Tanks(<10,000 gals, TVP<0.5 psia)	Insignificant Activity per LAC 33:III.501.B.5.A.3.
	Analyzer Vents	Insignificant Activity per LAC 33:III.501.B.5.A.9.

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AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
 Agency Interest No. 286
 Baton Rouge Chemical Plant
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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter													51*	53	56	59*
		5 ¹	9	11	13	15	2103	2107	2111	2115	2122	2147	2149	2153	22	51*	53	56
UNF008	Maintain		1	1	1										1	1	1	1
EQT676	C-01A														1			
EQT677	C-02B														1			
EQT678	C-03A														1			
EQT679	C-05A														1			
EQT680	C-08C														1			
EQT681	M-64A														2		1	
EQT682	M-64B														2		1	
EQT683	M-64C														3		1	
EQT684	M-64D														3		1	
EQT685	M-64E														2		1	
EQT686	S-01		1	1	1										3		1	2
EQT687	S-02		1	1	1										3		1	2
EQT688	S-03		1	1	1										3		1	2

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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 Agency Interest No. 286
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ID No.:	Description	LAC 33:III:Chapter																
		5'	9	11	13	15	2103	2107	2111	2115	2122	2147	2149	2153	22	51*	53	56
EQT689	S-06			1	1	1						3			1	2		
EQT690	S-07			1	1	1						3			1	2		
EQT691	S-08			1	1	1						3			1	2		
EQT692	S-09			1	1	1						3			1	2		
EQT693	S-102			1.	1	1						3			3	3		
EQT694	S-105			1	1	1						3			1	2		
EQT695	S-106			1	1	1						3			1	2		
EQT696	S-109			1	1	1									2	2		
EQT697	S-21			1	1	1						3			2	2		
EQT698	S-26			1	1	1						3			1	2		
EQT699	S-33			1	1	1						3			1	1		
EQT700	S-34			1	1	1							3		1	1		
EQT701	S-35			1	1	1							3		1	2		
EQT702	S-36			1	1	1							3		1	2		
EQT703	S-74			1	1	1							3		1	2		

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
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X. Table I. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5'	9	11	13	15	2103	2107	2111	2115	2122	2147	2149	2153	22	51*	53	56	59*
EQT704	S-84			1	1	1						3			1	2			
EQT705	S-87			1	1	1						3			3	3			
EQT706	S-89			1	1	1						3			3	3			
EQT707	S-90			1	1	1						3			3	3			
EQT708	T-1655						1	1									1	1	
EQT709	T-1658							1	1								1	1	
EQT710	T-1659								1	1							1	1	
EQT711	T-1664									1	1						1	1	
EQT712	T-1677									1	1						1	1	
EQT713	T-1733										1	1					1	1	
EQT714	T-1734										3						1	1	
EQT715	T-1737										3						1	1	
EQT716	T-1968X											1					1	1	
EQT717	T-236											3					1	1	
EQT718	T-282											3					1	1	

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5'	9	11	13	15	2103	2107	2111	2115	2122	2147	2149	2153	22	51*	53	56	59*
EQT719	T-302						3									2	1		
EQT721	T-3067						3									2	1		
EQT722	T-3068						3									2	1		
EQT723	T-3069						3									2	1		
EQT724	T-3092						3										1		
EQT725	T-322						3										3		
EQT726	T-411, N																	1	
EQT727	T-412, N																	1	
EQT728	T-416, N																	1	
EQT729	T-665																	1	
EQT730	T-771, N																	1	
EQT731	T-784																	1	
EQT764	T-1660																	1	
EQT765	T-1916																	1	
EQT766	T-3064																	1	

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5'	9	11	13	15	2103	2107	2111	2115	2122	2147	2149	2153	22	51*	53	56	59*	
EQT767	T-3070															2	1			
EQT768	T-3085																1			
EQT769	T-90																1			
EQT834	T-411, A																1			
EQT835	T-412, A																1			
EQT836	T-416, A																1			
EQT837	T-771, A																1			
EQT838	M-01T																1			
FUG046	U-110																1			
FUG047	U-46G																1			
FUG048	U-47J																1			
RLP110	M-79																	1		
RLP111	V-398																3	3		
RLP112	V-97																1	3	3	
RLP117	V-07																3	2	1	

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ID No.:	Description	LAC 33:III Chapter																	
		5 ¹	9	11	13	15	2103	2107	2111	2115	2122	2147	2149	2153	22	51*	53	56	59*
RLP118	V-239									3		1				1			
RLP119	V-341A									3		1				1			
RLP120	V-341B									3		2				1			
RLP121	V-342									3		3				3			
RLP122	V-376									3		1			2		1		
RLP123	V-377									3		1			2		1		
RLP124	V-379									3		2				3			
RLP125	V-380									3		2				3			
RLP126	V-381									3		2				1			
RLP127	V-388									3		1			2		1		
RLP128	V-396A									3		2				3			
RLP129	V-396B									3		2				1			
RLP130	V-397									3		3				3			
RLP131	V-451									3		1			2		1		
RLP132	V-452									3		3			2		1		

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AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Agency Interest No. 286
Baton Rouge Chemical Plant
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ID No.:	Description	LAC 33:III Chapter																
		5 ¹	9	11	13	15	2103	2107	2111	2115	2122	2147	2149	2153	22	51*	53	56
RLP133	V-454								1		3					1		
RLP134	V-455									3		3		2		1		
RLP135	V-544									3		2				1		
RLP136	V-545									3		3				3		
RLP137	V-546										3		2			1		
TRT001	S-86				1	1	1			1		3		2	1			

*The regulations indicated above are State Only regulations.

¹LAC 33:III.501.C.6 citations are federally enforceable except when it specifically states that the regulation is State Only.

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AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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AIR PERMITS DIVISION
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Agency Interest No. 286
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AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N
EQT687	S-02							1		3					
EQT688	S-03							1		3					
EQT689	S-06							1		3					
EQT690	S-07							1		3					
EQT691	S-08							1		3					
EQT692	S-09							1		3					
EQT693	S-102							3		3					
EQT694	S-105							1		3					
EQT695	S-106							1		3					
EQT696	S-109							3							
EQT697	S-21							1		3					
EQT698	S-26							1		3					
EQT699	S-33							1				1		3	

AIR PERMIT BRIEFING SHEET**AIR PERMITS DIVISION****LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY****Maintain Ethylene Production Facilities**

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ID No.	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHPAP				40 CFR			
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
EQT700	S-34																
EQT701	S-35																
EQT702	S-36																
EQT703	S-74																
EQT704	S-84																
EQT705	S-87																
EQT706	S-89																
EQT707	S-90																
EQT708	T-1655																
EQT709	T-1658																
EQT710	T-1659																
EQT711	T-1664																
EQT712	T-1677																

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AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR								
		A	D _b	K _b	G _b	V	N _Z	O _{QD}	R _{RR}	A	J&V	F&G	A	FF	H	XX	YY	ZZZ	Q	DDD	64	68
EQT713	T-1733			2																		
EQT714	T-1734			3																		3
EQT715	T-1737			2							3											3
EQT716	T-1968X			3																		3
EQT717	T-236			3																		3
EQT718	T-282			2																		3
EQT719	T-302			3																		3
EQT721	T-3067			3																		3
EQT722	T-3068			3																		3
EQT723	T-3069			3																		3
EQT724	T-3092			3																		3
EQT725	T-322			3																		3
EQT726	T-411, N			3																		1

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION

**Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR			
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
EQT836	T-416, A																
EQT837	T-771, A	3															
EQT838	M-01T		2														
FUG046	U-110																
FUG047	U-46G																
FUG048	U-47J																
RLP110	M-79																
RLP111	V-398																
RLP112	V-97																
RLP117	V-07																
RLP118	V-239																
RLP119	V-341A																
RLP120	V-341B																

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintrain Ethylene Production Facilities
 Agency Interest No. 286
 Baton Rouge Chemical Plant
 ExxonMobil Chemical Company
 Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR																
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	DDDD	ZZZZ	64	68	70				
RLP121	V-342																																			
RLP122	V-376																																			
RLP123	V-377																																			
RLP124	V-379																																			
RLP125	V-380																																			
RLP126	V-381																																			
RLP127	V-388																																			
RLP128	V-396A																																			
RLP129	V-396B																																			
RLP130	V-397																																			
RLP131	V-451																																			
RLP132	V-452																																			
RLP133	V-454																																			

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR														
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	DDDD	ZZZZ	64	68	70		
RLP134	V-455																																	
RLP135	V-544																																	
RLP136	V-545																																	
RLP137	V-546																																	
TRT001	S-86																																	

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
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KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank - The regulations clearly do not apply to this type of emission source.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
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X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT676 C-01A EQT677 C-02B EQT678 C-03A EQT679 C-05A EQT680 C-08C	NESHAP for Source Categories Subpart Q - Chromium Emissions from Industrial Process Cooling Towers (IPCT) [40 CFR Part 63.400(a)] NESHAP for Source Categories Subpart F - Heat Exchange System Requirements [40 CFR 63.100(b)]	DOES NOT APPLY. No water treatment programs using chromium or chromium compounds at the IPCT. DOES NOT APPLY. This re-circulating heat exchange system is not used to cool process equipment in a CMPU subject to the SOCMCI HON.
EQT838 M-01T	NESHAP for Source Categories Subpart F and G - Transfer Operations Provisions [40 CFR 63.100(b)]	DOES NOT APPLY. The loading operation of this product is not from a CMPU subject to the HON.
EQT681 M-64A EQT682 M-64B EQT685 M-64E	Control of Emission of Organic Compounds - Standards for Industrial Wastewater [LAC 33:III.2153.G.6]	EXEMPT. Any component of a wastewater storage, handling, transfer, or treatment facility that is subject to NESHAP Part 61 Subpart FF is exempt from this section.
EQT683 M-64C EQT684 M-64D	NESHAP Subpart FF - National Emission Standard for Benzene Waste Operations [40 CFR 61.342(c)(2)]	EXEMPT FROM CONTROL REQUIREMENTS. The flow-weighted annual average benzene concentration of the waste stream is <10 ppmw or the stream is placed on the exempt list in accordance with 40 CFR 61.342(c)(3)(ii).
	Control of Emission of Organic Compounds - Standards for Industrial Wastewater [LAC 33:III.2153.A]	DOES NOT APPLY. Does not meet the definition of affected VOC wastewater.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
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X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT686 S-01	Emission Standards for Sulfur Dioxide - Emission Limitations [LAC 33:III.1503]	EXEMPT. Source emits <250 tons per year of sulfur compounds. On 1/3/1997, LDEQ approved exemptions that exclude this source from the 2,000 ppmv SO ₂ limit.
EQT688 S-03	Emission Standards for Sulfur Dioxide - Continuous Emission Monitoring [LAC 33:III.1511]	EXEMPT. SO ₂ continuous emissions monitors are not required for sources emitting less than 100 TPY SO ₂ .
EQT689 S-06	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.B]	DOES NOT APPLY. Does not meet the definition of a reactor process or distillation operation.
EQT690 S-07		
EQT691 S-08		
EQT698 S-26		
EQT704 S-84	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5105.B.3]	EXEMPT. Combustion of Group 1 and Group 2 virgin fossil fuels.
EQT694 S-105		
EQT695 S-106	NSPS Subpart RRR - SOCMI Reactor Processes [40 CFR 60.700]	DOES NOT APPLY. There is no gas stream that is discharged to the atmosphere either directly or indirectly after diversion through other process equipment. Therefore, there are no vent streams from these reactors. All VOC gas streams from the reactors are completely condensed before being routed to downstream process equipment.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintrain Ethylene Production Facilities
 Agency Interest No. 286
 Baton Rouge Chemical Plant
 ExxonMobil Chemical Company
 Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT705 S-87	Emission Standards for Sulfur Dioxide - Emission Limitations [LAC 33:III.1503]	EXEMPT. Source emits <250 tons per year of sulfur compounds. On 1/3/1997, LDEQ approved exemptions that exclude this source from the 2,000 ppmv SO ₂ limit.
EQT706 S-89	Emission Standards for Sulfur Dioxide - Continuous Emission Monitoring [LAC 33:III.1511]	EXEMPT. SO ₂ continuous emissions monitors are not required for sources emitting less than 100 TPY SO ₂ .
EQT707 S-90	Control of Emission of Organic Compounds- Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.B]	DOES NOT APPLY. Does not meet the definition of a vent stream. Vent stream does not contain VOCs.
EQT693 S-102	Control of Emissions of Nitrogen Oxides (NO _x) in the Baton Rouge Nonattainment Area and the Region of Influence. [LAC 33:III.2201]	DOES NOT APPLY. Sources do not emit NO _x .
	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109]	DOES NOT APPLY. These sources do not emit any TAPs.
	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.660]	DOES NOT APPLY. These combustion sources do not burn any fuels that contain vents from NSPS NNN distillation operations.
	NSPS Subpart RRR - SOCMI Reactor Processes [40 CFR 60.701]	DOES NOT APPLY. Does not meet the definition of a reactor process. These sources are in furnace decoking operations.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT692 S-09	Emission Standards for Sulfur Dioxide - Emission Limitations [LAC 33:III.1503]	EXEMPT. Source emits <250 tons per year of sulfur compounds. On 1/31/997, LDEQ approved exemptions that exclude this source from the 2,000 ppmv SO ₂ limit.
	Emission Standards for Sulfur Dioxide - Continuous Emission Monitoring [LAC 33:III.1511]	EXEMPT. SO ₂ continuous emissions monitors are not required for sources emitting less than 100 TPY SO ₂ .
	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A]	DOES NOT APPLY. The source does not control any vent stream discharged from a SOCMI reactor process or distillation operation.
	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.660]	DOES NOT APPLY. This combustion source does not burn any fuels that contain vents from NSPS NNN distillation operations.
EQT697 S-21	Emission Standards for Sulfur Dioxide - Emission Limitations [LAC 33:III.1503]	EXEMPT. Source emits <250 tons per year of sulfur compounds. On 1/31/997, LDEQ approved exemptions that exclude this source from the 2,000 ppmv SO ₂ limit.
	Emission Standards for Sulfur Dioxide - Continuous Emission Monitoring [LAC 33:III.1511]	EXEMPT. SO ₂ continuous emissions monitors are not required for sources emitting less than 100 TPY SO ₂ .
	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.B]	DOES NOT APPLY. Does not meet the definition of a reactor process or distillation operation.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
(continued) EQT697 S-21	Control of Emissions of Nitrogen Oxides (NOx) in the Baton Rouge Nonattainment Area and the Region of Influence [LAC 33:III.C.1]	EXEMPT. Maximum rated capacity of the boiler/process heater/furnace is <40 MM BTU/hr.
	NSPS Subpart RRR - SOCMI Reactor Processes [40 CFR 60.701]	DOES NOT APPLY. Does not meet the definition of a reactor process. This source is a heater.
EQT699 S-33 EQT700 S-34	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A.2.g and 2147.B]	DOES NOT APPLY. Source burns CMM gas which is a primary fuel system and therefore excluded from the definition of vent stream. Also, source burns a secondary vent stream that is subject to the requirements of HON, and therefore exempt from these provisions.
EQT701 S-35 EQT702 S-36 EQT704 S-74	Emission Standards for Sulfur Dioxide - Emission Limitations [LAC 33:III.1503]	EXEMPT. Source emits <250 tons per year of sulfur compounds. On 1/3/1997, LDEQ approved exemptions that exclude this source from the 2,000 ppmv SO ₂ limit.
	Emission Standards for Sulfur Dioxide - Continuous Emission Monitoring [LAC 33:III.1511]	EXEMPT. SO ₂ continuous emissions monitors are not required for sources emitting less than 100 TPY SO ₂ .
	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.B]	DOES NOT APPLY. Source burns CMM gas which is a primary fuel system and therefore excluded from the definition of vent stream.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
TRT001 S-86	Emission Standards for Sulfur Dioxide - Emission Limitations [LAC 33:III.1503]	EXEMPT. Source emits <250 tons per year of sulfur compounds. On 1/3/1997, LDEQ approved exemptions that exclude this source from the 2,000 ppmv SO ₂ limit.
	Emission Standards for Sulfur Dioxide - Continuous Emission Monitoring [LAC 33:III.1511]	EXEMPT. SO ₂ continuous emissions monitors are not required for sources emitting less than 100 TPY SO ₂ .
	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147 A]	DOES NOT APPLY. The source does not control any vent stream discharged from a SOCMI reactor process or distillation operation.
	Control of Emissions of Nitrogen Oxides (NOx) in the Baton Rouge Nonattainment Area and the Region of Influence [LAC 33:III. 2201.B and 2201.C.7]	EXEMPT. This source is combustion equipment (without heat recovery) designed and operated primarily for the treatment of gaseous waste.
	NSPS Subpart RRR - SOCMI Reactor Processes [40 CFR 60.701]	DOES NOT APPLY. Does not meet the definition of a reactor process. This source is a thermal oxidizer.
	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.660]	DOES NOT APPLY. This combustion source does not burn any fuels that contain vents from NSPS NNN distillation operations.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT696 S-109	Emission Standards for Sulfur Dioxide - Emission Limitations [LAC 33.III.1503]	EXEMPT. Source emits <250 tons per year of sulfur compounds. On 1/3/1997, LDEQ approved exemptions that exclude this source from the 2,000 ppmv SO ₂ limit.
	Emission Standards for Sulfur Dioxide - Continuous Emission Monitoring [LAC 33.III.1511]	EXEMPT. SO ₂ continuous emissions monitors are not required for sources emitting less than 100 TPY SO ₂ .
	Control of Emissions of Nitrogen Oxides (NO _x) in the Baton Rouge Nonattainment Area and the Region of Influence. [LAC 33.III.2201.C.14]	EXEMPT. Diesel fired stationary internal combustion engines are exempt from the NOx RACT requirements.
	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.660]	DOES NOT APPLY. This combustion source does not burn any fuels that contain vents from NSPS NNN distillation operations.
	NESHAP for Source Categories Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines [40 CFR 63.6590(a)]	DOES NOT APPLY. Does not meet the definition of an affected source. Engine is <500 HP.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT692 S-09	NESHAP for Source Categories Subpart YY - Generic MACT-Ethylene Production	DOES NOT APPLY. This emission point is not part of the affected source for any ethylene production unit.
EQT697 S-21	[40 CFR 63.1103(e)(1)]	
EQT699 S-33		
EQT700 S-34		
EQT701 S-35		
EQT702 S-36		
EQT703 S-74		
TRT001 S-86		
EQT696 S-109		
EQT708 T-1655	Emission Standards for Sulfur Dioxide - Reduced Sulfur Compounds [LAC 33:III.1509]	EXEMPT. Source emits <10 TPY of sulfur compounds measured as hydrogen sulfide.
EQT709 T-1658		
EQT710 T-1659	Control of Emission of Organic Compounds - Storage of VOC Compounds [LAC 33:III.2103]	EXEMPT. Storage vessels storing VOC with true vapor pressure<1.5 psia are exempt from the provisions of this section.
EQT711 T-1664		
EQT712 T-1677		
EQT713 T-1733		

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
(continued)	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110(b)(a)]	DOES NOT APPLY. No construction, reconstruction, or modification after July 23, 1984.
EQT708 T-1655 EQT709 T-1658 EQT710 T-1659 EQT711 T-1664 EQT712 T-1677 EQT713 T-1733 EQT714 T-1734 EQT717 T-236 EQT718 T-282 EQT724 T-3092 EQT715 T-1737 EQT721 T-3067 EQT722 T-3068 EQT725 T-322 EQT729 T-665 EQT767 T-3070	NESHAP for Source Categories Subpart YY - Generic MACT-Ethylene Production-Storage Vessel Provisions [40 CFR 63.1103(e)] Control of Emission of Organic Compounds - Storage of VOC Compounds [LAC 33.III.2103] Control of Emission of Organic Compounds - Storage of VOC Compounds [LAC 33.III.2103]	DOES NOT APPLY. This storage vessel has a capacity >95 m ³ , but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 63 Subpart YY. DOES NOT APPLY. The maximum true vapor pressure (at storage conditions) of the liquid stored in this vessel is <1.5 psia. DOES NOT APPLY. The maximum true vapor pressure (at storage conditions) of the liquid stored in this vessel is <1.5 psia.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT719 T-302	Control of Emission of Organic Compounds - Storage of VOC Compounds [LAC 33:III.2103]	DOES NOT APPLY. Container has a capacity less than 250 gallons.
EQT723 T-3069	Emission Standards for Sulfur Dioxide - Reduced Sulfur Compounds [LAC 33:III.1509]	EXEMPT. Source emits <10 TPY of sulfur compounds measured as hydrogen sulfide.
EQT834 T-411, A		
EQT835 T-412, A		
EQT836 T-416, A		
EQT837 T-771, A		
EQT715 T-1737	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110(b)(a)]	DOES NOT APPLY. No construction, reconstruction, or modification after July 23, 1984.
EQT718 T-282		
EQT730 T-771, N		
EQT731 T-784		
EQT764 T-1660		
EQT765 T-1916		
EQT769 T-90		
EQT837 T-771, A		

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT714 T-1734	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 63.1100(g)(1)(ii)]	DOES NOT APPLY. A storage vessel that must be controlled by the 63 Subpart YY and 60 Subpart Kb is required to comply only with 63 Subpart YY.
EQT726 T-411, N		
EQT727 T-412, N		
EQT728 T-416, N		
EQT834 T-411, A		
EQT835 T-412, A		
EQT836 T-416, A		
EQT716 T-1968X	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(a)]	DOES NOT APPLY. Storage vessel has capacity <10,000 gallons.
EQT717 T-236		
EQT719 T-302		
EQT721 T-3067		
EQT722 T-3068		
EQT723 T-3069		
EQT767 T-3070		
EQT768 T-3085		
EQT724 T-3092		
EQT725 T-322		

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT766 T-3064	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.111b]	DOES NOT APPLY. Does not meet the definition of a storage vessel. Process tanks are excluded from the definition of storage vessel.
EQT729 T-665	NSPS Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b(b)]	DOES NOT APPLY. Vessels with capacity $\geq 39,889$ gals storing a liquid with maximum vapor pressure less than 0.51 psia are not subject to this subpart.
EQT719 T-302	NESHAP Subpart FF - National Emission Standard for Benzene Waste Operations [40 CFR 61.342(c)(2)]	EXEMPT FROM CONTROL REQUIREMENTS. The flow-weighted annual average benzene concentration of the waste stream is < 10 ppmw or the stream is placed on the exempt list in accordance with 40 CFR 61.342(c)(3)(ii).
EQT715 T-1737 EQT719 T-302 EQT766 T-3064 EQT721 T-3067 EQT722 T-3068 EQT767 T-3070 EQT768 T-3085 EQT729 T-665	NESHAP for Source Categories Subpart YY - Generic MACT-Ethylene Production-Storage Vessel Provisions [40 CFR 63.1101]	DOES NOT APPLY. Wastewater storage vessels are not included in the definition of storage vessels, and therefore are not subject to Subpart YY

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

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ID No:	Requirement	Notes
EQT725 T-322 EQT716 T-1968X	NESHAP for Source Categories Subpart YY - Generic MACT-Ethylene Production-Storage Vessel Provisions [40 CFR 63.1103(e)(1)]	DOES NOT APPLY. This is an emission point associated with the ethylene production unit, but is not subject to any requirements since it does not contain organic HAP.
EQT714 T-1734 EQT718 T-282	NESHAP for Source Categories Subpart YY - Generic MACT-Ethylene Production-Storage Vessel Provisions [40 CFR 63.1103(e)]	DOES NOT APPLY. This storage vessel has a capacity >95 m ³ , but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 63 Subpart YY.
EQT717 T-236 EQT724 T-3092	NESHAP for Source Categories Subpart YY - Generic MACT-Ethylene Production-Storage Vessel Provisions [40 CFR 63.1103(e)(1)]	DOES NOT APPLY. This storage vessel has a capacity <4 m ³ and the organic HAP maximum true vapor pressure is >3.4 kPa. Therefore, the source is not subject to any requirements of 63 Subpart YY.
EQT715 T-1737 EQT729 T-665	NESHAP for Source Categories Subpart XX - Waste Operations [40 CFR 63.1095 and 40 CFR 61.348]	DOES NOT APPLY. Wastewater streams have undergone treatment upstream of this source so that the flow-weighted annual average benzene concentration is <10 ppmw.
EQT715 T-1737 EQT729 T-665	NESHAP Subpart FF - National Emission Standard for Benzene Waste Operations [40 CFR 61.432(c)]	DOES NOT APPLY. Applicability determinations for benzene containing wastestreams have already been made upstream of this source. Benzene containing wastestreams entering this source have undergone prior treatment so that the flow-weighted annual average benzene concentration is <10 ppmw.

AIR PERMIT BRIEFING SHEET
AIR PERMIT'S DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
RLP117 V-07 RLP120 V-341B RLP124 V-379 RLP125 V-380 RLP126 V-381 RLP128 V-396A RLP129 V-396B RLP135 V-544 RLP137 V-546	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A.2.g]	EXEMPT. Any reactor process or distillation operation that is subject to the SOCMI HON, NSPS Subpart NNN or RRR is not subject to the provisions of LAC 33:III.2147.
RLP118 V-239 RLP119 V-341A RLP122 V-376 RLP123 V-377 RLP131, V-451 RLP127 V-388	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A.2.a]	EXEMPT. Any reactor process or distillation vent stream for which any existing combustion device is used to control VOC emissions is not required to meet the 98% destruction, or 20 ppmv emissions limit until the combustion device is replaced for other reasons. The source is still subject to the applicable monitoring and recordkeeping requirements.
RLP121, V-342 RLP130 V-397 RLP136 V-545	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.B]	DOES NOT APPLY. There is no vent stream.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
 Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
RLP111 V-398	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.B]	DOES NOT APPLY. Does not meet the definition of a reactor process or distillation operation. Distillation/reaction operations do not occur at these sources.
RLP132 V-452	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A]	DOES NOT APPLY. Does not produce any of the SOCMI chemicals listed in Table 8 in LAC 33:III Chapter 21 Appendix A as a final product or intermediate.
RLP133 V-454	Control of Emission of Organic Compounds - Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations [LAC 33:III.2147.A]	DOES NOT APPLY. The source does not control any vent stream discharged from a SOCMI reactor process or distillation operation.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. **Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
RLP117 V-07	Control of Emission of Organic Compounds - Waste Gas Disposal [LAC 33:III.2115]	DOES NOT APPLY. This regulation does not apply to any waste gas stream that is required by another federal or state regulation to implement controls that reduce VOCs to a more stringent standard than would be required by this section.
RLP120 V-341B		
RLP122 V-376		
RLP123 V-377		
RLP131 V-451		
RLP124 V-379		
RLP125 V-380		
RLP126 V-381		
RLP127 V-388		
RLP128 V-396A		
RLP129 V-396B		
RLP132 V-452		
RLP134 V-455		
RLP135 V-544		
RLP137 V-546		

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
RLP118 V-239 RLP119 V-341A	Control of Emission of Organic Compounds - Waste Gas Disposal [LAC 33:II.2115]	DOES NOT APPLY. Per the requirements in LAC 33:II.2147(A)(1), any source that is subject to the Waste Gas Disposal requirements in LAC 33:III.2115, and to SOCMI Reactor Processes and Distillation Operations requirements in LAC 33:II.2147 shall comply only with LAC 33:III.2147.
RLP121 V-342 RLP130 V-397 RLP136 V-545	Control of Emission of Organic Compounds - Waste Gas Disposal [LAC 33:II.2115.M]	DOES NOT APPLY. There is no vent stream to the atmosphere.
RLP111 V-398	Control of Emission of Organic Compounds - Waste Gas Disposal [LAC 33:II.2115.H.1.d]	EXEMPT. The waste gas stream has a concentration of VOCs less than 0.044 psia true partial pressure. Records must be kept to demonstrate exempt status.
RLP112 V-97	Control of Emission of Organic Compounds - Waste Gas Disposal [LAC 33:II.2115.H]	EXEMPT. The waste gas stream has a combined weight of VOC \leq 100 lbs in any continuous 24-hr period. Records must be kept to demonstrate exempt status.
RLP122 V-376 RLP123 V-377 RLP131 V-451 RLP127 V-388 RLP132 V-452 RLP134 V-455	Control of Emission of Organic Compounds - Standards for Industrial Wastewater [LAC 33:II.2153.G.6]	EXEMPT. Any component of a wastewater storage, handling, transfer, or treatment facility that is subject to NESHAP Part 61 Subpart FF is exempt from this section.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
RLP111 V-398	Control of Emission of Organic Compounds - Standards for Industrial Wastewater [LAC 33:III.2153.A]	DOES NOT APPLY. Does not meet the definition of affected VOC wastewater.
	Emission Standards for Sulfur Dioxide - Reduced Sulfur Compounds [LAC 33:III.1509]	EXEMPT. Source emits <10 TPY of sulfur compounds measured as hydrogen sulfide.
RLP117 V-07 RLP126 V-381 RLP129 V-396B RLP135 V-544 RLP137 V-546	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.1100(g)(2)(ii)]	DOES NOT APPLY. A process vent that must be controlled according to the process vent provisions in 40 CFR 63 Subpart YY and is also subject to NSPS NNN is required to comply only with the provisions of 63 Subpart YY.
RLP118 V-239 RLP119 V-341A RLP120 V-341B RLP122 V-376 RLP123 V-377 RLP131 V-451 RLP127 V-388	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.660(b)]	DOES NOT APPLY. No construction, reconstruction, or modification commenced after December 30, 1983.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No.	Requirement	Notes
RLP121 V-342 RLP136 V-545	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.661]	DOES NOT APPLY. Does not meet the definition of a vent stream. There is no discharge to the atmosphere.
RLP130 V-397 RLP111 V-398 RLP134 V-455 RLP112 V-97	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.661]	DOES NOT APPLY. Does not meet the definition of a distillation operation.
RLP132 V-452 RLP133 V-454	NSPS Subpart NNN - SOCMI Distillation Operations [40 CFR 60.660(a)]	DOES NOT APPLY. Process unit does not produce any of the SOCMI chemicals listed in 40 CFR 60.667 as a product, coproduct, by-product, or intermediate.
RLP118 V-239 RLP119 V-341A RLP121 V-342 RLP124 V-379 RLP125 V-380 RLP128 V-396A RLP130 V-397 RLP111 V-398 RLP112 V-97	NESHAP for Source Categories Subpart YY - Generic MACT-Ethylene Production-Process Vent Provisions [40 CFR 63.1103(e)(2)]	DOES NOT APPLY. Does not meet the definition of ethylene process vent. These vents are non-routine and typically associated with startup and shutdown, which are excluded from the definition of ethylene process vent.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

X. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
RLP133 V-454	NESHAP for Source Categories Subpart XX - Waste Operations [40 CFR 63.1095 and 40 CFR 61.348]	DOES NOT APPLY. Wastewater streams have undergone treatment upstream of this source so that the flow-weighted annual average benzene concentration is <10 ppmw.
EQT725 T-322	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33.III.S109]	This source does not emit any TAPs.
RLP112 V-97		
RLP121 V-342		
RLP124 V-379		
RLP125 V-380		
RLP128 V-396A		
RLP130 V-397		
RLP136 V-545	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33.III.S109]	This source has no vent.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

EQUIPMENT LIST		NOTES
EMISSION ID	DESCRIPTION	
EQT838 M-01T	C ₄ C ₅ LOADING (ACLA RACK)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.
EQT681 M-64A	SECONDARY WASTEWATER EMISSIONS (MAINTAIN WASTEWATERS TO WILA)	Wastewater routed to the WILA Steam Stripper (EIQ # V-148 in the BRCP Plant Infrastructure Permit). Some wastewater may be exempted from control by including it on the BRCP facility-wide 2.0 Mg exempt list (Benzene Waste Operations NESHAP)
EQT682 M-64B	SECONDARY WASTEWATER EMISSIONS (MAINTAIN WASTEWATERS TO SOUR WATER STRIPPER)	Wastewater routed to the SACC Sour Water Tower for stripping (EIQ# V-388 in this permit). Some wastewater may be exempted from control by including it on the BRCP facility-wide 2.0 Mg exempt list (Benzene Waste Operations NESHAP)
EQT683 M-64C	SECONDARY WASTEWATER EMISSIONS (MAINTAIN WASTEWATERS TO AWT)	Wastewater routed directly to the BRCP Advanced Wastewater Treatment (AWT) Unit.
EQT684 M-64D	TANKFARM AREA RUNOFF TO EXXONMOBIL BRRF REFINERY WASTEWATER TREATMENT SYSTEM	Storage tanks T-411, T-412, T-416, T-771 and T-784 are located in the ExxonMobil BRRF tank farm. The stormwater runoff from this area around these tanks is routed to the BRRF wastewater treatment system. These tanks are operated by BRCP.
EQT685 M-64E	OLA-2 SPENT CAUSTIC WASTEWATER STREAMS TO SCOLA SYSTEM	Spent Caustic routed to the Spent Caustic Separator Drum (FD-10) (EIQ # V-452)

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

EQUIPMENT LIST			
EMISSION ID	DESCRIPTION	NOTES	NOTES
GRP150 S-200	STEAM CRACKING FURNACES CAP	<p>This Steam Cracking Furnace Cap was established to limit the combined heat input at 21,024,000 MBtu/yr for any consecutive twelve month period for the 10 steam cracking furnaces included in Maintrain (OLA-2X and ECLA-W). The steam cracking furnaces included in this cap include:</p> <p>S-1 - OLA-2X Steam Cracking Furnace (AF-01) S-2 - OLA-2X Steam Cracking Furnace (BF-01) S-3 - OLA-2X Steam Cracking Furnace (CF-01) S-6 - OLA-2X Steam Cracking Furnace (FF-01) S-7 - OLA-2X Steam Cracking Furnace (GF-01) S-8 - OLA-2X Steam Cracking Furnace (HF-01) S-26 - ECLA-W / EPLA-W STEAM CRACKING FURNACE (MXF-01)</p> <p>S-84 - OLA-2X Steam Cracking Furnace (EF-01) S-105 - ECLA-W / EPLA-W STEAM CRACKING FURNACE (MCF-01) S-106 - ECLA-W / EPLA-W STEAM CRACKING FURNACE (MDF-01)</p>	<p>This MOX Boilers Cap was established to limit the combined heat input at 8,410,000 MBtu/yr for any consecutive twelve month period for the 5 MOX Boilers in Maintain. The MOX Boilers included in this cap include:</p> <p>S-33 - MOX Boiler MZB-01 S-34 - MOX Boiler MZB-02 S-35 - MOX Boiler MZB-03 S-36 - MOX Boiler MZB-04 S-74 - MOX Boiler MZB-05</p>
GRP151 S-210	MOX BOILERS CAP		
EQT769 T-90	HEAVY NAPHTHA / STEAM CRACKED NAPHTHA / SPLITTER BOTTOMS STORAGE TANK	Vapors are routed to the Refinery Vapor Recovery Unit that goes to the Refinery Gas Compression Unit for use as fuel in site process heaters and boilers.	
EQT718 T-282	HEAVY NAPHTHA / STEAM CRACKED NAPHTHA / SPLITTER BOTTOMS STORAGE TANK	Vapors are routed to the Refinery Vapor Recovery Unit that goes to the Refinery Gas Compression Unit for use as fuel in site process heaters and boilers.	

AIR PERMIT BRIEFING SHEET**AIR PERMITS DIVISION****LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY****Maintain Ethylene Production Facilities**

Agency Interest No. 286

Baton Rouge Chemical Plant

ExxonMobil Chemical Company

Baton Rouge, East Baton Rouge Parish, Louisiana

EQUIPMENT LIST		
EMISSION ID	DESCRIPTION	NOTES
EQT726 T-411 NORMAL	NGLs/NAPHTHAS/RAFFINATE/KEROS ENES/REFORMER FEEDS AND PRODUCTS TANK (NORMAL SCENARIO)	Tank is operated with an internal floating roof. Vapors are routed to the Refinery Vapor Recovery Unit that goes to the Refinery Gas Compression Unit for use as fuel in site process heaters and boilers.
EQT834 T-411 ALTERNATE	NGLs/NAPHTHAS/RAFFINATE/KEROS ENES/REFORMER FEEDS AND PRODUCTS TANK (ALTERNATE SCENARIO)	Tank is operated with an internal floating roof.
EQT727 T-412 NORMAL	NGLs/NAPHTHAS/RAFFINATE/KEROS ENES/REFORMER FEEDS AND PRODUCTS TANK (NORMAL SCENARIO)	Tank is operated with an internal floating roof. Vapors are routed to the Refinery Vapor Recovery Unit that goes to the Refinery Gas Compression Unit for use as fuel in site process heaters and boilers.
EQT835 T-412 ALTERNATE	NGLs/NAPHTHAS/RAFFINATE/KEROS ENES/REFORMER FEEDS AND PRODUCTS TANK (ALTERNATE SCENARIO)	Tank is operated with an internal floating roof.
EQT728 T-416 NORMAL	NGLs/NAPHTHAS/RAFFINATE/KEROS ENES/REFORMER FEEDS AND PRODUCTS TANK (NORMAL SCENARIO)	Tank is operated with an internal floating roof. Vapors are routed to the Refinery Vapor Recovery Unit that goes to the Refinery Gas Compression Unit for use as fuel in site process heaters and boilers.
EQT836 T-416 ALTERNATE	NGLs/NAPHTHAS/RAFFINATE/KEROS ENES/REFORMER FEEDS AND PRODUCTS TANK (ALTERNATE SCENARIO)	Tank is operated with an internal floating roof.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
 Agency Interest No. 286
 Baton Rouge Chemical Plant
 ExxonMobil Chemical Company
 Baton Rouge, East Baton Rouge Parish, Louisiana

		EQUIPMENT LIST	
EMISSION ID	DESCRIPTION		NOTES
EQT730 T-771 NORMAL	NGLs/NAPHTHA/SRAFFINATE/KEROS ENES/REFORMER FEEDS AND PRODUCTS TANK (NORMAL SCENERIO)	Tank is operated with an internal floating roof. Vapors are routed to the Refinery Vapor Recovery Unit that goes to the Refinery Gas Compression Unit for use as fuel in site process heaters and boilers.	
EQT837 T-771 ALTERNATE	NGLs/NAPHTHA/SRAFFINATE/KEROS ENES/REFORMER FEEDS AND PRODUCTS TANK (ALTERNATE SCENERIO)	Tank is operated with an internal floating roof.	
EQT764 T-1660	BUTANES STORAGE SPHERE	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.	
EQT765 T-1916	ISOPRENE, BUTYLENE, BUTADIENE, DILA FEED, AMYLENE, AND BUTENES STORAGE SPHERE	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.	
EQT766 T-3064	SOUR WATER STRIPPER FEED DRUM (KZD-73)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.	
EQT767 T-3070	SPENT CAUSTIC DRUM (MKD-06)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.	
EQT768 T-3085	WATER KNOCK-OUT DRUM (UPDR-107)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.	

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

EQUIPMENT LIST		NOTES
EMISSION ID	DESCRIPTION	
RLP117 V-07	DETOLUENIZER TOWER	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.
RLP118 V-239	DISTILLATION TOWERS T-1X, T-10X (DILA FRONT END)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.
RLP119 V-341A	VENTS FROM VESSELS IN OLA-2X, EPLA-W, AND ECLA-W AREAS (NOT EMACT)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion. <u>OLA-2X VESSELS:</u> KNC-01, KUD-01, KUD-02, KLD-03X, KLT-03, KND-51, KUD-52 <u>ECLA-W VESSELS:</u> MGD-10, MGD-07, MHD-01, MHD-07, MHD-04 <u>EPLA-W VESSELS:</u> MKD-01, MKD-02, MKD04, MSD-33, MSD-15, MST-04, MSD-23, MSD-24, MKD-23
RLP120 V-341B	VENTS FROM VESSELS IN OLA-2X, EPLA-W, AND ECLA-W AREAS (EMACT)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion. <u>OLA-2X VESSELS:</u> KLD-04, KLT-03 <u>ECLA-W VESSELS:</u> MHD-05 <u>EPLA-W VESSELS:</u> MKD-06, MSD-16, MST-05, MZD-13, KMSD-907, MSCD-97
RLP121 V-342	MST-03 TOWER	Vent stream is recycled back to the process. Therefore, there are no emissions.
RLP122 V-376	OLA-2X (KZD-52) FLARE DRUM ;	Vapors are routed to the BRCP Flare Gas Recovery System.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

EQUIPMENT LIST			
EMISSION ID	DESCRIPTION	NOTES	
RLP123 V-377	ECLA-W (M2D-12) FLARE DRUM	Vapors are routed to the BRCP Flare Gas Recovery System.	
RLP124 V-379	OVERHEAD STREAM FROM MST-01 - DEMETHANIZER	Vent is routed to the Chemical Mixing Manifold (CMM) fuel system.	
RLP125 V-380	OVERHEAD STREAM FROM MST-02 - DEETHANIZER	Vent stream is recycled to the process, or routed to the Chemical manifold mixing (CMM) system, or BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.	
RLP126 V-381	OVERHEAD STREAM FROM MST-04 - DEPROGANIZER	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.	
RLP127 V-388	SACC SOUR WATER STRIPPER	Vapors are returned to the process or routed to the BRCP Flare Gas Recovery System.	
RLP128 V-396A	DISTILLATION TOWERS VENTS (MAINTRAIN)(NOT EMACT)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.	<u>OLA-2X VESSELS:</u> KUT-01, KUT-01A <u>ECLA-W VESSELS:</u> MHT-01 <u>EPLA-W VESSELS:</u> MKT-01

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

		EQUIPMENT LIST		
EMISSION ID	DESCRIPTION		NOTES	
RLP129 V-396B	DISTILLATION TOWERS VENTS (MAINTAIN)(EMACT)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion. OLA-2X VESSELS: KJT-01, KLT-01		
RLP130 V-397	REACTORS IN EPLA-W AREA	All process streams from these reactors are routed to other processes, and ultimately converted to products.	EPLA-W REACTORS: MSR-01, MSR-02, MSR-03	
V-451	DILA FLARE DRUM	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.		
RLP132 V-452	SPENT CAUSTIC SEPARATOR DRUM (D-01)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.		
RLP133 V-454	SCOLA OXIDIZER TOWER (T-02) AND SEPARATOR DRUM (D-02)	This vent is routed to the SCOLA Thermal Oxidizer (EIQ# S-86).		
RLP134 V-455	DILA SOUR WATER DRUM (BDD-31)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.		

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Maintain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

EQUIPMENT LIST		
EMISSION ID	DESCRIPTION	NOTES
RLP135 V-544	HYDROGENATION SYSTEM FLASH DRUM(T-100)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.
RLP136 V-545	HYDROGENATION REACTOR	There is no vent from this source.
RLP136 V-546	HYDROGENATION PRODUCT FRACTIONATION TOWER(T-200)	Vapors are routed to the BRCP Flare Gas Recovery System. This is a primary fuel supply for site process heaters and boilers. The vent stream that is routed to this system may also be routed to the BRCP flares for combustion.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
APPENDIX A: PART 70 SPECIFIC CONDITIONS

Maintrain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

1. Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.
 - a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
 - b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters.
 - c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on August 15 and February 15, to cover the periods January 1 through June 30, and July 1, through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

Unit or Plant Site	Program Being Streamlined	Stream Applicability	Overall Most Stringent Program
U-110 Maintrain Fugitives	40 CFR 63 Subpart UU as referenced by 40 CFR 63 Subpart YY LA non-HON MACT LAC 33:III.2122 40 CFR 61 Subpart V & J 40 CFR 60 Subpart VV	5% HAP 5% VOTAP 10% VOC 10% Benzene 10% VOC	40 CFR 63 Subpart UU as referenced by 40 CFR 63 Subpart YY
U-46G DILA Fugitives for C ₄ /C ₅ Loading	40 CFR 63 Subpart H 40 CFR 63 Subpart UU as referenced by 40 CFR 63 Subpart YY LA Non-HON MACT LAC 33:III.2122 NESHAP Sub J & V NSPS Subpart VV RCRA Sub BB & CC	5% VOHAP 5% HAP 5% VOTAP 10% VOC 10% Benzene 10%10% VOHAP VOC	40 CFR 63 Subpart H

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
APPENDIX A: PART 70 SPECIFIC CONDITIONS

Maintrain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

Unit or Plant Site	Program Being Streamlined	Stream Applicability	Overall Most Stringent Program
U-47J ACLA Rack Fugitives for C ₄ /C ₅ Loading	40 CFR 63 Subpart H 40 CFR 63 Subpart YY referencing 40 CFR 63 Subpart UU LA Non-HON MACT LAC 33.III.2122 NESHAP Sub J & V NSPS Subpart VV RCRA Sub BB & CC	5% VOHAP 5% HAP 5% VOTAP 10% VOC 10% Benzene 10% VOC 10% VOHAP	40 CFR 63 Subpart H

2. Permittee shall comply with the Maintrain startup and shutdown annual tons per year and daily pounds per day limits identified in this specific condition in the table below. Total emissions are limited on a five-year rolling average, and are calculated using the formulae provided.

Permittee shall report the calculated SU/SD Maintrain emissions by March 31 for the proceeding year(s). Permittee shall maintain record of these emissions on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Annual emissions (based on 5-year rolling average) and daily rates greater than the limits listed in this permit shall be violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

To the extent practicable, permittee shall schedule turnarounds and maintenance shut downs for periods outside of ozone season (May 1 through September 30).

Pollutants	Maximum Daily Rate, (Lbs/day)	5-yr Rolling Average, (TPY)
VOC	24,000	15.0
CO	49,400	33.2
PM ₁₀	2,700	1.8
NO _x	9,100	6.1
SO ₂	17,800	11.0
Benzene	1,950	1.2
1,3-Butadiene	1,350	0.84
Ethyl Benzene	220	0.14
Phenol	2	0.01
Naphthalene	460	0.29
Styrene	1,350	0.84
Xylenes	750	0.47

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
APPENDIX A: PART 70 SPECIFIC CONDITIONS

Maintrain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana

The five-year rolling average shall be calculated using the following equations:

If: $i - y \geq 5$, Use EQ1

If: $i - y < 5$, Use EQ2

Where: i =Most Recent Calendar Year

y =Year the SU/SD Specific Condition was added

$$\text{EQ1: 5 YR AVG} = \sum_{i=4}^i \frac{Xi}{5}$$

$$\text{EQ2: 5 YR AVG} = \sum_y^i \frac{Xi}{5}$$

Where: X_i = Annual Emissions in year i (TPY)

3. Nothing contained in Specific Condition 2 shall be construed to exempt the reporting of emissions from upsets or malfunctions in accordance with LAC 33:II.507.J or LA:33:I.Chapter 39. Emissions as described in Specific Condition 2 are authorized to the extent that they result from:
 - 1) A normal shutdown or startup;
 - 2) Activities associated with an unscheduled shutdown where pre-planned adjustments to reduce or minimize emissions are used, or
 - 3) Online operating adjustments in lieu of a unit shutdown
4. Permittee shall calculate the actual emissions in tons per year that occurred from installation of additional furnace tubes for 10 years post-startup as required by New Source Review (NSR) reform. These records shall be available for inspection by the LDEQ Surveillance Division. Should emissions from the S-08; SACC H OLA-2X furnace, that resulted from this project, exceed 20.74 tons per year of NO_x or 1.84 tons per year of VOC, it shall be considered a violation of this permit and shall be reported to LDEQ per the provisions of General Condition R.
5. Permittee is authorized to install additional tubes on source S-08 (EQT091, the SACC H furnace) prior to the shutdown of S-04 (EQT029, the OLA-1X Gas Turbine) subject to the following requirements:
 - a. During the time period between installation of additional tubes on S-08 and shutdown of S-04, permittee shall limit the average hourly firing rate of S-08 to 208 MMBTU/hour. Records demonstrating the actual firing rate shall be available for review by the LDEQ Surveillance Division.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
APPENDIX A: PART 70 SPECIFIC CONDITIONS**

**Maintrain Ethylene Production Facilities
Agency Interest No. 286
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
Baton Rouge, East Baton Rouge Parish, Louisiana**

- b. Permittee is authorized to remove the above restriction only upon shutdown of S-04.
- c. Within 60 days of shutdown of S-04, permittee shall report in writing to the LDEQ Enforcement Division, Air Enforcement Section the actual average hourly firing rate of S-08 during the period from startup of S-08 after installation of the additional tubes, to shutdown of S-04, in order to demonstrate that no emission increase above past actual operation occurred until shutdown of S-04.
- d. Should the average hourly firing rate of S-08 for the time period from startup after installation of additional tubes, to shutdown of S-04, exceed 208 MMBTU/hour, it shall be considered a violation of New Source Review and shall be reported to EPA Region 6 and LDEQ Enforcement Division, Air Enforcement Section within 7 days from determination that a violation occurred. Such violation shall also be reported via the provisions of General Condition R.
- e. This condition expires upon permanent shutdown of source S-04 and submittal of the report required in Item c.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ONLY SPECIFIC CONDITIONS**

Maintrain Ethylene Production Facilities

Agency Interest No. 286

Baton Rouge Chemical Plant

ExxonMobil Chemical Company

Baton Rouge, East Baton Rouge Parish, Louisiana

1. The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the Department by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:
 - a. Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emissions components themselves;
 - b. The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components;
 - c. Actual emissions following the changes will not exceed the emission limits contained in this permit; and
 - d. The components are promptly incorporated into any applicable leak detection and repair program.
2. The following parameters shall be monitored and recorded to ensure proper operation of the SCOLA Thermal Oxidizer System (Emission Point No. S-86, TRT001):
 - a. While the SCOLA offgas is being introduced into the SCOLA thermal oxidizer, the firebox temperature of the thermal oxidizer shall be maintained above 1440°F (3-hour average). This will facilitate proper conversion of the hydrocarbon disulfides to SO₂. The temperature shall be continuously monitored and recorded (at least 4 equally spaced readings during an hour). The temperature readings shall be documented and kept onsite.
 - b. While the SCOLA offgas is being introduced into the SCOLA thermal oxidizer, the pH of the caustic scrubber effluent shall be maintained above 7.5. This will facilitate proper operation of the caustic scrubber to control the SO₂ from the thermal oxidizer exhaust. The pH shall be determined and recorded every 4 hours.

A report documenting any temperature and/or pH readings less than the minimums denoted above shall be submitted to the Office of Environmental Compliance by March 31 for the preceding calendar year.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;

40 CFR PART 70 GENERAL CONDITIONS

4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

40 CFR PART 70 GENERAL CONDITIONS

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated July 10, 2008, along with supplemental information dated August 5, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December
 - D. Each report submitted in accordance with this condition shall contain the following information:
 - 1. Description of noncomplying emission(s);
 - 2. Cause of noncompliance;
 - 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 - 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 - 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
 - E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of the permit may be appealed to the secretary in writing pursuant to La. R.S. 30:2024(A) within 30 days from notice of the permit action. A request may be made to the secretary to suspend those provisions of the permit specifically appealed. The permit remains in effect to the extent that the secretary or assistant secretary does not elect to suspend the appealed provisions as requested or, at his discretion, other permit provisions as well. Construction cannot proceed, except as specifically approved by the secretary or

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

assistant secretary, until a final decision has been rendered on the appeal. A request for hearing must be sent to the Office of the Secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
MAINTRAIN ETHYLENE PRODUCTION						
EQT0676	C-01A - GFLA-1 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)	32400 gallons/min				8760 hr/yr (All Year)
EQT0677	C-02B - GFLA-3 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)	24100 gallons/min				8760 hr/yr (All Year)
EQT0678	C-03A - GFLA-9 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)	2675 gallons/min				8760 hr/yr (All Year)
EQT0679	C-05A - EPLA-W COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)	81100 gallons/min				8760 hr/yr (All Year)
EQT0680	C-08C - GFLA-2/5/6 COOLING TOWERS (DILA FRONT END EMISSIONS)	60000 gallons/min				8760 hr/yr (All Year)
EQT0681	M-64A - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO W/LA)					8760 hr/yr (All Year)
EQT0682	M-64B - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO SOUR WATER STRIPPER)					8760 hr/yr (All Year)
EQT0683	M-64C - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO AWT)					8760 hr/yr (All Year)
EQT0684	M-64D - TANKFARM AREA RUNOFF TO EXXONMOBIL BRRF REFINERY WASTEWATER TREATMENT SYSTEM					8760 hr/yr (All Year)
EQT0685	M-64E - OLA-2X SPENT CAUSTIC WASTEWATER STREAMS TO SCOLA SYSTEM					8760 hr/yr (All Year)
EQT0686	S-01 - OLA-2X STEAM CRACKING FURNACE AF-01	382 MM BTU/hr				8760 hr/yr (All Year)
EQT0687	S-02 - OLA-2X STEAM CRACKING FURNACE BF-01	365 MM BTU/hr				8760 hr/yr (All Year)
EQT0688	S-03 - OLA-2X STEAM CRACKING FURNACE CF-01	365 MM BTU/hr				8760 hr/yr (All Year)
EQT0689	S-06 - OLA-2X STEAM CRACKING FURNACE FF-01	345 MM BTU/hr				8760 hr/yr (All Year)
EQT0690	S-07 - OLA-2X STEAM CRACKING FURNACE GF-01	345 MM BTU/hr				8760 hr/yr (All Year)
EQT0691	S-08 - OLA-2X STEAM CRACKING FURNACE HF-01	345 MM BTU/hr				8760 hr/yr (All Year)
EQT0692	S-09 - GAS TURBINE NG-01	391 MM BTU/hr				8760 hr/yr (All Year)
EQT0693	S-102 - OLA-2X FF.GF. AND HF FURNACE DECOKING DRUM VENT					8760 hr/yr (All Year)
EQT0694	S-105 - ECLA-W/EPLA-W STEAM CRACKING FURNACE MCF-01	345 MM BTU/hr				8760 hr/yr (All Year)
EQT0695	S-106 - ECLA-W/EPLA-W STEAM CRACKING FURNACE MDF-01	345 MM BTU/hr				8760 hr/yr (All Year)
EQT0696	S-109 - NACC PORTABLE AIR COMPRESSOR	482 horsepower				2000 hr/yr (All Year)
EQT0697	S-21 - REGENERATION HEATERS MKF-01/MSE-01	45 MM BTU/hr				8760 hr/yr (All Year)
EQT0698	S-26 - ECLA-W/EPLA-W STEAM CRACKING FURNACE MXF-01	163 MM BTU/hr				8760 hr/yr (All Year)
EQT0699	S-33 - MOX BOILER MZB-01	348 MM BTU/hr				8760 hr/yr (All Year)
EQT0700	S-34 - MOX BOILER MZB-02	348 MM BTU/hr				8760 hr/yr (All Year)
EQT0701	S-35 - MOX BOILER MZB-03	308 MM BTU/hr				8760 hr/yr (All Year)
EQT0702	S-36 - MOX BOILER MZB-04	308 MM BTU/hr				8760 hr/yr (All Year)
EQT0703	S-74 - MOX BOILER MZB-05	308 MM BTU/hr				8760 hr/yr (All Year)
EQT0704	S-84 - OLA-2X STEAM CRACKING FURNACE EF-01	395 MM BTU/hr				8760 hr/yr (All Year)

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
MAINTRAIN ETHYLENE PRODUCTION						
EQT0705	S-87 - OLA-2X AF/BFC/FURNACE DECOKE DRUM VENT					8760 hr/yr (All Year)
EQT0706	S-89 - ECLA-W DECOKE DRUM VENT					8760 hr/yr (All Year)
EQT0707	T-1650 - OLA-2X EF FURNACE DECOKE DRUM VENT	127000 gallons				8760 hr/yr (All Year)
EQT0708	T-1655 - QUENCH OIL STORAGE TANK	32881 bbl				8760 hr/yr (All Year)
EQT0709	T-1658 - STEAM CRACKED LIQUID STORAGE TANK	32881 bbl				8760 hr/yr (All Year)
EQT0710	T-1659 - STEAM CRACKED LIQUID STORAGE TANK	32881 bbl				8760 hr/yr (All Year)
EQT0711	T-1664 - STEAM CRACKED LIQUID STORAGE TANK	81190 bbl				8760 hr/yr (All Year)
EQT0712	T-1677 - QUENCH OIL STORAGE TANK	127000 gallons				8760 hr/yr (All Year)
EQT0713	T-1733 - STEAM CRACKED LIQUID STORAGE TANK	81190 bbl				8760 hr/yr (All Year)
EQT0714	T-1734 - HYDROTREATER FEED TANK	67143 bbl				8760 hr/yr (All Year)
EQT0715	T-1737 - SULFIDIC CAUSTIC STORAGE TANK	846000 gallons				8760 hr/yr (All Year)
EQT0716	T-1968X - METHANOL STORAGE TANK	4700 gallons				8760 hr/yr (All Year)
EQT0717	T-236 - WHEEL WASH LIQUID STORAGE DRUM (HD-14)	375 gallons				8760 hr/yr (All Year)
EQT0718	T-282 - HEAVY NAPHTHA / STEAM CRACKED NAPHTHA / SPLITTER BOTTOMS STORAGE TANK	42024 bbl				8760 hr/yr (All Year)
EQT0719	T-302 - WATER DISENGAGING DRUM (BDD-302)	141 gallons				8760 hr/yr (All Year)
EQT0720	T-3065 - ANTIFOAM STORAGE DRUM	1000 gallons				8760 hr/yr (All Year)
EQT0721	T-3067 - JD-06 WATER DRAWDOWN DRUM	950 gallons				8760 hr/yr (All Year)
EQT0722	T-3068 - LD-06 WATER DRAWDOWN DRUM	2500 gallons				8760 hr/yr (All Year)
EQT0723	T-3069 - KD-10 CAUSTIC WATER DRUM (MKD-10)	53 gallons				8760 hr/yr (All Year)
EQT0724	T-3092 - MAINTAIN COMPRESSOR WHEEL WASH DRUM	375 gallons				8760 hr/yr (All Year)
EQT0725	T-3222 - NEUTRALIZING AMINE STORAGE TANK	9950 gallons				8760 hr/yr (All Year)
EQT0726	T-411, N - NGIS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	92857 bbl				8760 hr/yr (All Year)
EQT0727	T-412, N - NGIS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	92857 bbl				8760 hr/yr (All Year)
EQT0728	T-416, N - NGIS / NAPHTHA / RAFFINATE / KEROSENE / REFORMER FEED & PRODUCTS / XYLENES TANK	114286 bbl				8760 hr/yr (All Year)
EQT0729	T-665 - SULFIDIC CAUSTIC STORAGE TANK	32905 bbl				8760 hr/yr (All Year)
EQT0730	T-777, N - NGIS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	55500 bbl				8760 hr/yr (All Year)
EQT0731	T-784 - STEAM CRACKED NAPHTHA TANK (EFR)	88738 bbl				8760 hr/yr (All Year)
EQT0764	T-1660 - BUTANES STORAGE SPHERE	105700 gallons				8760 hr/yr (All Year)
EQT0765	T-1916 - ISOPRENE-BUTYLENE, BUTADIENE, DILA FEED, AMYLENE, AND BUTENES STORAGE SPHERE	251000 gallons				8760 hr/yr (All Year)
EQT0766	T-3064 - SOUR WATER STRIPPER FEED DRUM(KZD-73)	29800 gallons				8760 hr/yr (All Year)
EQT0767	T-3070 - SPENT CAUSTIC DRUM (MKD-06)	1175 gallons				8760 hr/yr (All Year)
EQT0768	T-3085 - WATER KNOCK-OUT DRUM (UPDR-107)	5830 gallons				8760 hr/yr (All Year)
EQT0769	NAPHTHA/SPLITTER BOTTOMS STORAGE TANK	33784 bbl				8760 hr/yr (All Year)
EQT0834	T-411, A - NGIS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	92857 bbl				8760 hr/yr (All Year)

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
MAINTRAIN ETHYLENE PRODUCTION						
EQT0835	T-412-A - NGLS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	92857 bbl	-	-	-	8760 hr/yr (All Year)
EQT0836	T-416 - NGLS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	114286 bbl	-	-	-	8760 hr/yr (All Year)
EQT0837	T-771-A - NGLS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	55500 bbl	-	-	-	8760 hr/yr (All Year)
EQT0838	M-011 - C4/C5 LOADING (ACLA AND DILA RACKS)	-	-	-	(None Specified)	-
FUG0046	U-110 - MAINTRAIN FUGITIVE EMISSIONS	-	-	-	8760 hr/yr (All Year)	-
FUG0047	U-46G - DILA RACK FUGITIVES FOR CAIC5 LOADING	-	-	-	8760 hr/yr (All Year)	-
FUG0048	U-47J - ACLA RACK FUGITIVES FOR CAIC5 LOADING	-	-	-	8760 hr/yr (All Year)	-
RLP0110	M-79 - MAINTAIN DESICCANT/CATALYST LOADING	-	-	-	8760 hr/yr (All Year)	-
RLP0111	V-398 - CONDENSATE DEAERATOR AND VENT DRUMS	-	-	-	8760 hr/yr (All Year)	-
RLP0112	V-97 - EP/A-W ACETYLENE CONVERTER/PROPYLENE HYDROFINER (SD-35) VENT	-	-	-	8760 hr/yr (All Year)	-
RLP0117	V-07 - DETOLUENIZER TOWER	-	-	-	(None Specified)	-
RLP0118	V-239 - V-DISTILLATION TOWERST-1X, T-10X(DILA FRONT END)	-	-	-	(None Specified)	-
RLP0119	V-341A - VENTS FROM VESSELS IN OLA-2X, EP/A-W, AND ECLA-W AREAS (NOT EMACT)	-	-	-	(None Specified)	-
RLP0120	V-341B - VENTS FROM VESSELS IN OLA-2X, EP/A-W, AND ECLA-W ARE	-	-	-	(None Specified)	-
RLP0121	V-342 - MST-03 TOWER	-	-	-	(None Specified)	-
RLP0122	V-376 - OLA-2X (KZD-52) FLARE DRUM	-	-	-	(None Specified)	-
RLP0123	V-377 - ÉCLA-W (MZD-12) FLARE DRUM	-	-	-	(None Specified)	-
RLP0124	V-379 - OVERHEAD STREAM FROM MST-01 - DEMETHANIZER	-	-	-	(None Specified)	-
RLP0125	V-380 - OVERHEAD STREAM FROM MST-02 - DEETHANIZER	-	-	-	(None Specified)	-
RLP0126	V-381 - OVERHEAD STREAM FROM MST-04 - DEPROPAZINIZER	-	-	-	(None Specified)	-
RLP0127	V-388 - SACC SOUR WATER STRIPPER	-	-	-	(None Specified)	-
RLP0128	V-398A - DISTILLATION TOWERS VENTS (MAINTRAIN) (NOT EMACT)	-	-	-	(None Specified)	-
RLP0129	V-398B - DISTILLATION TOWERS VENTS (MAINTRAIN)(EMACT)	-	-	-	(None Specified)	-
RLP0130	V-397 - REACTORS IN EP/A-W AREA	-	-	-	(None Specified)	-
RLP0131	V-451 - DILA FLARE DRUM	-	-	-	(None Specified)	-
RLP0132	V-452 - SPÉN CAUSTIC SEPARATOR DRUM (FD-10)	-	-	-	(None Specified)	-
RLP0133	V-454 - SCOLA OXIDIZER TOWER (FR-20) AND SEPARATOR DRUM (FD-50)	-	-	-	(None Specified)	-
RLP0134	V-455 - DILA SOUR WATER DRUM (BD-31)	-	-	-	(None Specified)	-
RLP0135	V-544 - HYDROGENATION SYSTEM FLASH DRUM (T-100)	-	-	-	(None Specified)	-
RLP0136	V-545 - HYDROGENATION REACTOR	-	-	-	(None Specified)	-
RLP0137	V-546 - HYDROGENATION PRODUCT FRACTIONATION	-	-	-	(None Specified)	-

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
MAINTRAIN ETHYLENE PRODUCTION						
TR10001	TOWER (T-200)			7.5 MM BTU/hr		
TR10001	S-86 - SCOLA THERMAL OXIDIZER					8750 hr/yr (All Year)
Stack Information:						
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)
MAINTRAIN ETHYLENE PRODUCTION						
EQT0676	C-01A - GFLA-1 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)	29		59		72
EQT0677	C-02B - GFLA-3 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)	33		68		47
EQT0678	C-03A - GFLA-9 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)	24		46		44
EQT0679	C-05A - EPLA-W COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)	46.1		69		71
EQT0680	C-08C - GFLA-2/5/6 COOLING TOWERS (DILA FRONT END EMISSIONS)	31		78		57
EQT0686	S-01 - OLA-2X STEAM CRACKING FURNACE AF-01	51	191681	8.96		287
EQT0687	S-02 - OLA-2X STEAM CRACKING FURNACE BF-01	73	208291	7.8		235
EQT0688	S-03 - OLA-2X STEAM CRACKING FURNACE CF-01	73	207427	7.8		235
EQT0689	S-06 - OLA-2X STEAM CRACKING FURNACE FF-01	54	153815	7.8		254
EQT0690	S-07 - OLA-2X STEAM CRACKING FURNACE GF-01	66	163210	7.8		254
EQT0691	S-08 - OLA-2X STEAM CRACKING FURNACE HF-01	63	181309	7.8		254
EQT0692	S-09 - GAS TURBINE NG-01	89	421000	10		75
EQT0693	S-102 - OLA-2X FF,GF, AND HF FURNACE DECOCKING DRUM VENT	197	80866	3		122
EQT0694	S-105 - ECIA-W/EPLA-W STEAM CRACKING FURNACE MCF-01	30	78915	7.5		131.5
EQT0695	S-106 - ECIA-W/EPLA-W STEAM CRACKING FURNACE MDF-01	30	78915	7.5		131.5
EQT0696	S-109 - NACC PORTABLE AIR COMPRESSOR	184		542	.25	508
EQT0697	S-21 - REGENERATION HEATERS MKF-01/MSF-01	10.5	17615	5.96		7.7
EQT0698	S-26 - ECIA-W/EPLA-W STEAM CRACKING FURNACE MXF-01	21	58298	7.67		127.5
EQT0699	S-33 - MOX BOILER MZB-01	61	96038	5.8		132
EQT0700	S-34 - MOX BOILER MZB-02	54	85019	5.8		381
EQT0701	S-35 - MOX BOILER MZB-03	51	79576	5.8		132
EQT0702	S-36 - MOX BOILER MZB-04	52	81226	5.8		344
EQT0703	S-74 - MOX BOILER MZB-05	48	77044	5.8		132
EQT0704	S-84 - OLA-2X STEAM CRACKING FURNACE EF-01	43	152824	8.7		340
EQT0705	S-87 - OLA-2X AF/B/F/C FURNACE DECOCKING DRUM VENT	340	64000	2		500
EQT0706	S-89 - ECIA-W DECOCKING DRUM VENT	287	9300	.83		325

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
MAINTAIN ETHYLENE PRODUCTION							
EQT0707	S-90 - OLA-2X EFF FURNACE DECOKE DRUM VENT	369	65000	194		64.5	500
EQT0708	T-1655 - QUENCH OIL STORAGE TANK			30		24	
EQT0709	T-1658 - STEAM CRACKED LIQUID STORAGE TANK			70		48	
EQT0710	T-1659 - STEAM CRACKED LIQUID STORAGE TANK			70		48	
EQT0711	T-1664 - STEAM CRACKED LIQUID STORAGE TANK			110		48	
EQT0712	T-1677 - QUENCH OIL STORAGE TANK			30		24	
EQT0713	T-1733 - STEAM CRACKED LIQUID STORAGE TANK			100		48	
EQT0714	T-1734 - HYDROTREATER FEED TANK			100		48	
EQT0715	T-1737 - SULFIDIC CAUSTIC STORAGE TANK			60		40	
EQT0716	T-1968X - METHANOL STORAGE TANK					8	
EQT0717	T-236 - WHEEL WASH LIQUID STORAGE DRUM (HD-14)	8.54	16	4		4	77
EQT0718	T-282 - HEAVY NAPHTHA / STEAM CRACKED NAPHTHA / SPITTER BOTTOMS STORAGE TANK			93		35	
EQT0719	T-302 - WATER DISENGAGING DRUM (BDD-302)					70	
EQT0720	T-3065 - ANTI FOAM STORAGE DRUM			54		11.8	
EQT0721	T-3067 - JD-06 WATER DRAWOFF DRUM	43	2.2	33		120	100
EQT0722	T-3068 - LD-06 WATER DRAWOFF DRUM	3.24	9.54	25		10	100
EQT0723	KO-10 CAUSTIC WATER DRUM (MKD-10)	5.3	1.5	.01		260	70
EQT0724	T-3092 - MAIN TRAIN COMPRESSOR WHEEL WASH DRUM			4.21		12	
EQT0725	T-322 - NEUTRALIZING AMINE STORAGE TANK			1		20	70
EQT0726	T-411-N - NGLS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK			110		55.5	
EQT0727	T-412-N - NGLS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK			110		55.5	
EQT0728	T-416-N - NGLS / NAPHTHAS / RAFFINATE / KEROSENE / REFORMER FEED & PRODUCTS / XYLENES TANK			120		57	
EQT0729	T-665 - SULFIDIC CAUSTIC STORAGE TANK					48	
EQT0730	T-771-N - NGLS / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK			70		48	
EQT0731	T-784 - STEAM CRACKED NAPHTHA TANK (EFFR)			115		30	
EQT0764	T-1660 - BUTANE STORAGE SPHERE			115		48	
EQT0765	T-1916 - ISOPRENE, BUTYLENE, BUTADIENE, DIENE FEED, AMYLENE, AND BUTENES STORAGE SPHERE						
EQT0766	T-3064 - SOUR WATER STRIPPER FEED DRUM (KZD-73)						
EQT0767	T-3070 - SPENT CAUSTIC DRUM (MKD-06)						
EQT0768	T-3085 - WATER KNOCK-OUT DRUM (UPDR-107)						
EQT0769	T-90 - T-90 HEAVY NAPHTHA/STEAM CRACKED NAPHTHA/SPLITTER						

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
MAINTRAIN ETHYLENE PRODUCTION							
BOTTOMS STORAGE TANK							
EQT0834	T-411-A - NGls / NAPHTHS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	110		110		55.5	
EQT0835	T-412-A - NGls / NAPHTHS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	110		110		55.5	
EQT0836	T-416 - NGls / NAPHTHS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	120		120		57	
EQT0837	T-771-A - NGls / NAPHTHS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK	115		115		30	
RLP0110	W-79 - MAINTRAIN DESICCANT/CATALYST LOADING						
RLP0112	V-97 - EPLA-W ACETYLENE CONVERTER/PROPYLENE HYDROFINER (SD-35) VENT	1.1	12.8	.5		30	90
TRT0001	S-86 - SCOLA THERMAL OXIDIZER	45	4771	2		75	170

Relationships:

Subject Item Groups:

ID	Group Type	Group Description
GRP0149	Equipment Group	M-64 - MAINTRAIN SECONDARY WASTEWATER EMISSIONS
GRP0150	Equipment Group	S-200 - STEAM CRACKING FURNACES CAP
GRP0151	Equipment Group	S-210 - MOX BOILERS CAP
GRP0157	Equipment Group	T-411 - NGls / NAPHTHS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK
GRP0158	Equipment Group	T-412 - NGls / NAPHTHS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK
GRP0160	Equipment Group	T-771 - NGls / NAPHTHS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK
UNF0008	Unit or Facility Wide	FACILITY WIDE - MAINTRAIN ETHYLENE PRODUCTION

Group Membership:

ID	Description	Member of Groups
EQT0681	M-64A - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO W11A)	GRP00000000149
EQT0682	M-64B - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO SOUR WATER STRIPPER)	GRP00000000149
EQT0683	M-64C - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO AW1)	GRP00000000149
EQT0684	M-64D - TANKFARM AREA RUNOFF TO EXXONMOBIL BRRF REFINERY WASTEWATER TREATMENT SYSTEM	GRP00000000149
EQT0685	M-64E - OLA-2X SPENT CAUSTIC WASTEWATER STREAMS TO SCOLA SYSTEM	GRP00000000149
EQT0686	S-01 - OLA-2X STEAM CRACKING FURNACE AF-01	GRP00000000150
EQT0687	S-02 - OLA-2X STEAM CRACKING FURNACE BF-01	GRP00000000150
EQT0688	S-03 - OLA-2X STEAM CRACKING FURNACE CF-01	GRP00000000150
EQT0689	S-06 - OLA-2X STEAM CRACKING FURNACE FF-01	GRP00000000150
EQT0690	S-07 - OLA-2X STEAM CRACKING FURNACE GF-01	GRP00000000150

INVENTORIES

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

Group Membership:

ID	Description	Member of Groups
EQT0891	S-08 - OLA-2X STEAM CRACKING FURNACE HF-01	GRP0000000150
EQT0894	S-105 - ÉCLA-WIEPLA-W STEAM CRACKING FURNACE MCF-01	GRP0000000150
EQT0895	S-106 - ECLA-WIEPLA-W STEAM CRACKING FURNACE MDF-01	GRP0000000150
EQT0898	S-26 - ÉCLA-WIEPLA-W STEAM CRACKING FURNACE MXF-01	GRP0000000150
EQT0899	S-33 - MOX BOILER MZB-01	GRP0000000151
EQT0700	S-34 - MOX BOILER MZB-02	GRP0000000151
EQT0701	S-35 - MOX BOILER MZB-03	GRP0000000151
EQT0702	S-36 - MOX BOILER MZB-04	GRP0000000151
EQT0703	S-74 - MOX BOILER MZB-05	GRP0000000151
EQT0704	S-84 - OLA-2X STEAM CRACKING FURNACE EF-01	GRP0000000150
EQT0726	T-411. N - NGLs / NAPHTHS / RAFFINATE / KEROSINES / REFORMER FEEDS AND PRODUCTS	GRP0000000157
EQT0727	T-412. N - NGLs / NAPHTHS / RAFFINATE / KEROSINES / REFORMER FEEDS AND PRODUCTS	GRP0000000158
EQT0728	T-416. N - NGLs / NAPHTHA / RAFFINATE / KEROSENE / REFORMER FEED & PRODUCTS / XYLENES TANK	GRP0000000159
EQT0730	T-771. N - NGLs / NAPHTHS / RAFFINATE / KEROSINES / REFORMER FEEDS AND PRODUCTS	GRP0000000160
EQT0834	T-411. A - NGLs / NAPHTHS / RAFFINATE / KEROSINES / REFORMER FEEDS AND PRODUCTS	GRP0000000157
EQT0835	T-412. A - NGLs / NAPHTHS / RAFFINATE / KEROSENE / REFORMER FEEDS AND PRODUCTS	GRP0000000158
EQT0836	T-416. A - NGLs / NAPHTHS / RAFFINATE / KEROSINES / REFORMER FEEDS AND PRODUCTS	GRP0000000159
EQT0837	T-771. A - NGLs / NAPHTHS / RAFFINATE / KEROSINE / REFORMER FEEDS AND PRODUCTS	GRP0000000160

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
0635	Olefins and Aromatics N.E.C. (Rated Capacity)	2100	MM lb/Yr
2869	Industrial organic chemicals, nec	UNF008	

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
MINTRAIN ETHYLENE PRODUCTION															
EQT 0676 C-01A							4.2	4.6	18.46				1.1		5.01
EQT 0677 C-02B							3.1	3.4	13.73				0.89		3.91
EQT 0678 C-03A							0.38	0.42	1.66				0.07		0.32
EQT 0679 C-05A							10.6	11.6	46.22				2.3		9.86
EQT 0680 C-08C							0.78	0.86	3.42				0.01		0.06
EQT 0686 S-01	70			35.9			3.3			18.2			2.4		
EQT 0687 S-02	70			35			3.2			179.8			2.3		
EQT 0688 S-03	70			35			3.2			179.8			2.3		
EQT 0689 S-06	70			32.4			3			169.9			2.2		
EQT 0690 S-07	70			35.5			3			169.9			2.2		
EQT 0691 S-08	70			32.4			3			169.9			2.2		
EQT 0692 S-09	26.4	350	115.6	81.1	89.2	355.19	2.6	2.6	11.3	0.06	0.1	0.28	0.82		3.6
EQT 0693 S-102	6.1	380.9	26.87				0.67	41.6	2.94	0.02	1.2	0.09			
EQT 0694 S-105		70		40			3			169.9			2.2		
EQT 0695 S-106		70		40			3			169.9			2.2		
EQT 0696 S-109	8.6	9	8.62	7	7.3	7	0.41	0.43	0.41	0.94	0.99	0.94	1	1.1	1.01
EQT 0697 S-21	3	4.3	8.93	3.5	5.1	10.63	0.27	0.39	0.81	0.01	22.2	0.02	0.19	0.28	0.58
EQT 0698 S-26		35			18.9			1.4			80.3		1		
EQT 0699 S-33	46.2				46.2			2.7			151.7		1.9		
EQT 0700 S-34	46.2				46.2			2.7			151.7		1.9		
EQT 0701 S-35	46.2				46.2			2.7			151.7		1.9		
EQT 0702 S-36	46.2				46.2			2.7			151.7		1.9		
EQT 0703 S-74	46.2				46.2			2.7			151.7		1.9		

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER2008005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
MINTAIN ETHYLENE PRODUCTION															
EQT 0704 S-44	70			33.5			3.3			189.6					2.4
EQT 0705 S-47	9	524.1	39.31				1	57.3	4.3	0.03	1.7	0.13			
EQT 0706 S-49	8.7	425.5	38.29				0.96	46.5	4.19	0.03	1.4	0.13			
EQT 0707 S-90	3.4	415.2	14.95				0.37	45.6	1.63	0.01	1.4	0.05			
EQT 0708 T-1655													0.03		0.11
EQT 0709 T-1656													1.2		5.39
EQT 0710 T-1659													1.2		5.39
EQT 0711 T-1664													2.7		11.83
EQT 0712 T-1677													0.03		0.11
EQT 0713 T-1733													2.4		10.71
EQT 0714 T-1734													0.12		0.51
EQT 0715 T-1737													0.01		0.06
EQT 0716 T-1960X													0.02		0.11
EQT 0717 T-236													0.003		0.01
EQT 0718 T-282													8.26		0.99
EQT 0719 T-302													0.14		0.63
EQT 0720 T-3065													0.01		0.08
EQT 0721 T-3067													0.19		0.83
EQT 0722 T-3068													0.19		0.83
EQT 0723 T-3069													0.05		0.2
EQT 0724 T-3092													0.01		0.02
EQT 0725 T-322													0.1		0.44
EQT 0729 T-665													0.03		0.13

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
MAINTAIN ETHYLENE PRODUCTION															
EQT 0731 T-784															
FUG 0046 U-110	0.02	0.1											1.5		6.7
FUG 0047 U-466													9.1		40.03
FUG 0048 U-471													0.02		0.1
GRP 0149 M-54													0.02		0.07
GRP 0150 S-200	229.1		1003.42	176		771	20.7		90.79	0.46			6.2		27.14
GRP 0151 S-210	76.8		336.4	91.90		402.48	8.3		36.32	0.19			2.02	15	65.7
GRP 0157 T-411													0.81	6	26.28
GRP 0158 T-412													0.04		0.16
GRP 0160 T-771													0.04		0.16
RLP 0110 M-79													0.52		2.27
RLP 0111 V-388													0.01	0.02	0.01
RLP 0112 V-97	0.14	2.5	0.36										4.1	4.8	17.87
TRT 0001 S-86	0.02	5	0.07	1.3	2.7	5.48	0.05	0.1	0.2	1.6	8	7	0.01	0.1	0.03

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0676 C-01A	1,3-Butadiene	0.04		0.18
	Benzene	0.12		0.52
	Ethyl benzene	0.004		0.02
	Hydrogen sulfide	0.002		0.01
	Naphthalene	0.005		0.02
	Styrene	0.01		0.04
	Toluene	0.03		0.15
	Xylene (mixed isomers)	0.01		0.05
	n-Hexane	0.01		0.05
EQT 0677 C-02B	1,3-Butadiene	0.14		0.61
	Benzene	0.03		0.12
	Cumene	0.002		0.01
	Ethyl benzene	0.01		0.03
	Hydrogen sulfide	0.002		0.01
	Naphthalene	0.01		0.04
	Styrene	0.01		0.06
	Toluene	0.03		0.15
	Xylene (mixed isomers)	0.02		0.07
EQT 0678 C-03A	n-Hexane	0.003		0.01
	Benzene	0.002		0.01
	Cresol	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.01		0.05
	Naphthalene	0.007		0.03
	Styrene	0.002		0.01
	Toluene	0.003		0.01
	Xylene (mixed isomers)	0.01		0.05
EQT 0679 C-05A	n-Hexane	0.002		0.01
	1,3-Butadiene	0.05		0.21
	Benzene	0.02		0.09
	Hydrogen sulfide	0.003		0.01
	Naphthalene	0.002		0.01
	Toluene	0.003		0.01
	Xylene (mixed isomers)	0.002		0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0680 C-08C	Benzene	0.01		0.03
	Toluene	0.002		0.01
EQT 0699 S-33	1,3-Butadiene	0.01	0.1	0.03
EQT 0700 S-34	1,3-Butadiene	0.01	0.1	0.03
EQT 0708 T-1655	Benzene	0.002		0.01
	Biphenyl	0.002		0.01
	Cresol	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Hydrogen sulfide	0.002		0.01
	Methyl ethyl ketone	0.002		0.01
	Methyl isobutyl ketone	0.002		0.01
	Naphthalene	0.002		0.01
	Polynuclear Aromatic Hydrocarbons	0.0002		0.001
	Styrene	0.002		0.01
	Toluene	0.002		0.01
	Xylene (mixed isomers)	0.002		0.01
EQT 0709 T-1658	n-Hexane	0.01		0.03
	Benzene	0.03		0.14
	Biphenyl	0.002		0.01
	Cresol	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.06		0.26
	Hydrogen sulfide	0.002		0.01
	Methyl ethyl ketone	0.002		0.01
	Methyl isobutyl ketone	0.002		0.01
	Naphthalene	0.002		0.01
	Polynuclear Aromatic Hydrocarbons	0.0002		0.001
	Styrene	0.002		0.01
	Toluene	0.07		0.3
EQT 0710 T-1659	Xylene (mixed isomers)	0.12		0.51
	n-Hexane	0.32		1.41
	Benzene	0.03		0.14
	Biphenyl	0.002		0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0710 T-1659	Cresol	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.06		0.26
	Hydrogen sulfide	0.002		0.01
	Methyl ethyl ketone	0.002		0.01
	Methyl isobutyl ketone	0.002		0.01
	Naphthalene	0.002		0.01
	Polynuclear Aromatic Hydrocarbons	0.0002		0.001
	Styrene	0.002		0.01
	Toluene	0.07		0.3
	Xylene (mixed isomers)	0.12		0.51
	n-Hexane	0.32		1.41
EOT 0711 T-1664	Benzene	0.07		0.3
	Biphenyl	0.002		0.01
	Cresol	0.002		0.01
	Cumene	0.005		0.02
	Ethyl benzene	0.13		0.57
	Hydrogen sulfide	0.8		3.5
	Methyl ethyl ketone	0.002		0.01
	Methyl isobutyl ketone	0.002		0.01
	Naphthalene	0.003		0.01
	Polynuclear Aromatic Hydrocarbons	0.0002		0.001
	Styrene	0.002		0.01
	Toluene	0.15		0.66
	Xylene (mixed isomers)	0.25		1.12
	n-Hexane	0.7		3.09
EQT 0712 T-1677	Benzene	0.002		0.01
	Biphenyl	0.002		0.01
	Cresol	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Hydrogen sulfide	0.002		0.01
	Methyl ethyl ketone	0.002		0.01
	Methyl isobutyl ketone	0.002		0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 --ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0712 T-1677	Naphthalene	0.002		0.01
	Polynuclear Aromatic Hydrocarbons	0.0002		0.001
	Styrene	0.002		0.01
	Toluene	0.002		0.01
	Xylene (mixed isomers)	0.002		0.01
	n-Hexane	0.01		0.03
EQT 0713 T-1733	Benzene	0.06		0.27
	Biphenyl	0.002		0.01
	Cresol	0.002		0.01
	Cumene	0.005		0.02
	Ethyl benzene	0.12		0.51
	Hydrogen sulfide	0.77		3.36
	Methyl ethyl ketone	0.002		0.01
	Methyl isobutyl ketone	0.002		0.01
	Naphthalene	0.003		0.01
	Polynuclear Aromatic Hydrocarbons	0.0002		0.001
	Styrene	0.002		0.01
	Toluene	0.14		0.59
	Xylene (mixed isomers)	0.23		1.01
	n-Hexane	0.64		2.8
EQT 0714 T-1734	Benzene	0.002		0.01
	Cresol	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.003		0.01
	Naphthalene	0.002		0.01
	Styrene	0.004		0.02
	Toluene	0.03		0.12
	Xylene (mixed isomers)	0.01		0.04
	n-Hexane	0.01		0.04
EQT 0715 T-1737	Benzene	0.004		0.02
	Ethyl benzene	0.002		0.01
	Hydrogen sulfide	0.002		0.01
	Naphthalene	0.002		0.01
	Styrene	0.002		0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title VI Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EOT 0715 T-1737	Toluene	0.002		0.01
	Xylene (mixed isomers)	0.002		0.01
EOT 0716 T-1968X	Methanol	0.02		0.11
EOT 0717 T-236	Ethyl benzene	0.002		0.01
	Xylene (mixed isomers)	0.002		0.01
	n-butyl alcohol	0.002		0.01
	Benzene	0.07		0.01
EOT 0718 T-282	Cresol	0.002		0.01
	Cumene	0.06		0.01
	Ethyl benzene	1.2		0.15
	Naphthalene	0.02		0.01
	Styrene	0.002		0.01
	Toluene	1		0.13
	Xylene (mixed isomers)	1.3		0.15
	n-Hexane	0.003		0.01
	1,3-Butadiene	0.002		0.01
	Acetonitrile	0.002		0.01
EOT 0721 T-3067	Benzene	0.07		0.32
	Ethyl benzene	0.002		0.01
	Naphthalene	0.005		0.02
	Styrene	0.01		0.04
	Toluene	0.03		0.12
	Xylene (mixed isomers)	0.005		0.02
EOT 0722 T-3068	Benzene	0.07		0.32
	Ethyl benzene	0.002		0.01
	Naphthalene	0.005		0.02
	Styrene	0.01		0.04
	Toluene	0.03		0.12
	Xylene (mixed isomers)	0.005		0.02
EOT 0723 T-3069	1,3-Butadiene	0.002		0.01
	Benzene	0.002		0.01
	Hydrogen sulfide	0.002		0.01
	Toluene	0.002		0.01
EOT 0724 T-3092	Ethyl benzene	0.002		0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0724 T-3092	Xylene (mixed isomers)	0.002		0.01
	n-butyl alcohol	0.002		0.01
EQT 0729 T-665	Benzene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Hydrogen sulfide	0.003		0.01
	Naphthalene	0.002		0.01
	Styrene	0.002		0.01
	Toluene	0.002		0.01
	Xylene (mixed isomers)	0.002		0.01
EQT 0731 T-784	Benzene	0.36		1.57
	Toluene	0.003		0.01
	n-Hexane	0.16		0.71
FUG 0046 U-110	1,3-Butadiene	0.18		0.78
	Benzene	0.3		1.3
	Cresol	0.003		0.01
	Cumene	0.02		0.1
	Ethyl benzene	0.06		0.28
	Hydrogen sulfide	0.004		0.02
	Methanol	0.17		0.75
	Methyl Tertiary Butyl Ether	0.002		0.01
	Methyl ethyl ketone	0.004		0.02
	Naphthalene	0.1		0.44
	Phenol	0.02		0.1
	Styrene	0.22		0.95
	Toluene	0.45		1.97
	Xylene (mixed isomers)	0.18		0.8
FUG 0047 U-46G	n-Hexane	0.03		0.15
	1,3-Butadiene	0.002		0.01
	Benzene	0.002		0.01
	Toluene	0.002		0.01
FUG 0048 U-47J	n-Hexane	0.002		0.01
	1,3-Butadiene	0.002		0.01
	Benzene	0.002		0.01
	Toluene	0.002		0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0048 U-47J	n-Hexane	0.002		0.01
GRP 0149 M-64	1,3-Butadiene	0.22		0.97
	Benzene	0.5		2.21
	Cresol	0.02		0.08
	Cumene	0.002		0.01
	Ethyl benzene	0.12		0.55
	Methanol	0.003		0.01
	Naphthalene	0.04		0.18
	Phenol	0.01		0.04
	Styrene	0.08		0.36
	Toluene	0.27		1.19
GRP 0157 T-411	Xylene (mixed isomers)	0.11		0.48
	n-Hexane	0.06		0.27
	Benzene	0.004		0.02
	Biphenyl	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Hydrogen sulfide	0.002		0.01
	Naphthalene	0.002		0.01
	Polynuclear Aromatic Hydrocarbons	0.0002		0.001
	Styrene	0.002		0.01
GRP 0158 T-412	Toluene	0.002		0.01
	Xylene (mixed isomers)	0.002		0.01
	n-Hexane	0.005		0.02
	Benzene	0.004		0.02
	Biphenyl	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Hydrogen sulfide	0.002		0.01
	Naphthalene	0.002		0.01
	Polynuclear Aromatic Hydrocarbons	0.0002		0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
GRP 0158 T-412	n-Hexane	0.005		0.02
GRP 0160 T-771	Benzene	0.12		0.51
	Biphenyl	0.002		0.01
	Cumene	0.002		0.01
	Ethyl benzene	0.002		0.01
	Hydrogen sulfide	0.09		0.4
	Naphthalene	0.002		0.01
	Styrene	0.002		0.01
	Toluene	0.005		0.02
	Xylene (mixed isomers)	0.002		0.01
	n-Hexane	0.07		0.31
RLP 0110 M-79	Nickel (and compounds)	0.2	36	0.09
RLP 0111 V-398	1,3-Butadiene	0.16	0.19	0.7
	Benzene	0.27	0.32	1.19
	Cumene	0.002	0.1	0.01
	Ethyl benzene	0.75	0.88	3.29
	Hydrogen sulfide	0.002	0.1	0.01
	Naphthalene	0.002	0.1	0.01
	Phenol	0.002	0.1	0.01
	Styrene	0.002	0.1	0.01
	Toluene	0.002	0.1	0.01
	Xylene (mixed isomers)	0.002	0.1	0.01
TRT 0001 S-86	Benzene	0.002	0.1	0.01
	Ethyl benzene	0.002	0.1	0.01
	Styrene	0.002	0.1	0.01
	Sulfuric acid	0.23	1.2	1
	Toluene	0.002	0.1	0.01
	Xylene (mixed isomers)	0.002	0.1	0.01
UNF 0008 FACILITY WIDE	1,3-Butadiene			3.55
	Acetonitrile			0.01
	Benzene			9.51
	Biphenyl			0.10
	Cresol			0.18
	Cumene			0.28

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0008 FACILITY WIDE	Ethyl benzene			6.12
	Hydrogen sulfide			7.42
	Methanol			0.87
	Methyl Tertiary Butyl Ether			0.01
	Methyl ethyl ketone			0.08
	Methyl isobutyl ketone			0.06
	Naphthalene			0.91
	Phenol			0.15
	Polynuclear Aromatic Hydrocarbons			0.009
	Styrene			1.67
	Sulfuric acid			1
	Toluene			6.03
	Xylene (mixed isomers)			4.99
	n-Hexane			10.55
	n-butyl alcohol			0.02

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0676 C-01A - GFLA-1 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)

- 1 [40 CFR 63.1086(b)] HAP monitored by the regulation's specified method(s) monthly for 6 months, both initially and following completion of a leak repair. Monitor cooling water at the entrance and exit of each heat exchanger for the HAP listed in 40 CFR 63 Subpart XX Table 1 or other representative substances that indicate the presence of a leak using any method listed in 40 CFR part 136 or the methods specified in 40 CFR 63.1086(d). Then, if no leaks are detected by monitoring monthly for a 6 month period, monitor quarterly thereafter until a leak is detected. If a leak is detected, monitor monthly until the leak has been repaired. Upon completion of repair, monitor according to the specifications in 40 CFR 63.1086(b)(1)(i). Subpart XX. [40 CFR 63.1086(b)]
- 2 [40 CFR 63.1086(c)(1)] Which Months: All Year Statistical Basis: None specified When using a surrogate to detect leaks into the water, prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling waters. Ensure that the plan requires monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.1086(c)(1)(i) through (c)(1)(iv). Subpart XX. [40 CFR 63.1086(c)(1)]
- 3 [40 CFR 63.1086(c)(2)] When using a surrogate to detect leaks into the water, revise the monitoring plan and document the basis for the changes, if a leak is identified by audio, visual, or olfactory inspection, a method listed in 40 CFR part 136, or any other means other than those described in the monitoring plan, and the method(s) specified in the plan could not detect the leak. Complete the revisions to the plan no later than 180 days after discovery of the leak. Subpart XX. [40 CFR 63.1086(c)(2)]
- 4 [40 CFR 63.1086(c)(3)] When using a surrogate to detect leaks into the water, maintain, at all times, the monitoring plan that is currently in use. Maintain the plan on-site, or make accessible from a central location by computer or other means that provide access within 2 hours after a request. If the monitoring plan is changed, retain the most recent superseded plan for at least 5 years from the date of its creation. Retain the superseded plan on-site or accessible from a central location by computer or other means that provide access within 2 hours after a request. Subpart XX. [40 CFR 63.1086(c)(3)]
- 5 [40 CFR 63.1087(a)] Repair leaks as soon as practical but not later than 45 calendar days after receiving the results of monitoring tests that indicated a leak. Repair leaks unless it can be demonstrated that the results are due to a condition other than a leak. Subpart XX. [40 CFR 63.1087(a)]
- 6 [40 CFR 63.1087(b)] Once a leak has been repaired, use the monitoring requirements in 40 CFR 63.1086 within 7 calendar days of the repair or startup, whichever is later, to confirm that the heat exchange system has been repaired. Subpart XX. [40 CFR 63.1087(b)]
- 7 [40 CFR 63.1089] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.1089(a) through (e), according to the requirements of 40 CFR 63.1109(c). Subpart XX.
- 8 [40 CFR 63.1090] Report any delay of repair in the semiannual report required by 40 CFR 63.1110(e). If the leak remains unrepairs, continue to report the delay of repair in semiannual reports until the leak is repaired. Include the information in 40 CFR 63.1090(a) through (e) in the semiannual report. Subpart XX.
- 9 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for heat exchange systems is determined as MACT.

EQT0677 C-02B - GFLA-3 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0677 C-02B - GFLA-3 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)

- 10 [40 CFR 63.1086(b)] HAP monitored by the regulation's specified method(s) monthly for 6 months, both initially and following completion of a leak repair. Monitor cooling water at the entrance and exit of each heat exchanger for the HAP listed in 40 CFR 63 Subpart XX Table 1 or other representative substances that indicate the presence of a leak using any method listed in 40 CFR part 136 or the methods specified in 40 CFR 63.1086(d). Then, if no leaks are detected by monitoring monthly for a 6 month period, monitor quarterly thereafter until a leak is detected. If a leak is detected, monitor monthly until the leak has been repaired. Upon completion of repair, monitor according to the specifications in 40 CFR 63.1086(b)(1)(i). Subpart XX. [40 CFR 63.1086(b)]
- Which Months: All Year Statistical Basis: None specified
- When using a surrogate to detect leaks into the water, prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling waters. Ensure that the plan requires monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.1086(c)(1)(i) through (c)(1)(iv). Subpart XX. [40 CFR 63.1086(c)(1)]
- 11 [40 CFR 63.1086(c)(1)] When using a surrogate to detect leaks into the water, revise the monitoring plan and document the basis for the changes, if a leak is identified by audio, visual, or olfactory inspection, a method listed in 40 CFR part 136, or any other means other than those described in the monitoring plan, and the method(s) specified in the plan could not detect the leak. Complete the revisions to the plan no later than 180 days after discovery of the leak. Subpart XX. [40 CFR 63.1086(c)(2)]
- When using a surrogate to detect leaks into the water, maintain, at all times, the monitoring plan that is currently in use. Maintain the plan on-site, or make accessible from a central location by computer or other means that provide access within 2 hours after a request. If the monitoring plan is changed, retain the most recent superseded plan for at least 5 years from the date of its creation. Retain the superseded plan on-site or accessible from a central location by computer or other means that provide access within 2 hours after a request. Subpart XX. [40 CFR 63.1086(c)(3)]
- 12 [40 CFR 63.1086(c)(2)] Repair leaks as soon as practical but not later than 45 calendar days after receiving the results of monitoring tests that indicated a leak. Repair leaks unless it can be demonstrated that the results are due to a condition other than a leak. Subpart XX. [40 CFR 63.1087(a)]
- Once a leak has been repaired, use the monitoring requirements in 40 CFR 63.1086 within 7 calendar days of the repair or startup, whichever is later, to confirm that the heat exchange system has been repaired. Subpart XX. [40 CFR 63.1087(b)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.1089(a) through (e), according to the requirements of 40 CFR 63.1109(c). Subpart XX.
- Report any delay of repair in the semiannual report required by 40 CFR 63.1110(e). If the leak remains unrepaired, continue to report the delay of repair in semiannual reports until the leak is repaired. Include the information in 40 CFR 63.1090(a) through (e) in the semiannual report. Subpart XX.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for heat exchange systems is determined as MACT.
- 13 [40 CFR 63.1086(c)(3)]
- 14 [40 CFR 63.1087(a)]
- 15 [40 CFR 63.1087(b)]
- 16 [40 CFR 63.1089]
- 17 [40 CFR 63.1090]
- 18 [LAC 33.III.5109.A]

EQT0678 C-03A - GFLA-9 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER2008005

Permit Number: 2031-V7

Air • Title V Regular Permit Minor Mod

EQT0678 C-03A - GFLA-9 COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)

19 [40 CFR 63.1086(b)] HAP monitored by the regulation's specified method(s) monthly for 6 months, both initially and following completion of a leak repair. Monitor cooling water at the entrance and exit of each heat exchanger for the HAP listed in 40 CFR 63 Subpart XX Table 1 or other representative substances that indicate the presence of a leak using any method listed in 40 CFR part 136 or the methods specified in 40 CFR 63.1086(d). Then, if no leaks are detected by monitoring monthly for a 6 month period, monitor quarterly thereafter until a leak is detected. If a leak is detected, monitor monthly until the leak has been repaired. Upon completion of repair, monitor according to the specifications in 40 CFR 63.1086(b)(1)(i). Subpart XX. [40 CFR 63.1086(b)]

Which Months: All Year Statistical Basis: None specified

When using a surrogate to detect leaks into the water, prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling waters. Ensure that the plan requires monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.1086(c)(1)(i) through (c)(1)(iv). Subpart XX. [40 CFR 63.1086(c)(1)]

When using a surrogate to detect leaks into the water, revise the monitoring plan and document the basis for the changes, if a leak is identified by audio, visual, or olfactory inspection, a method listed in 40 CFR part 136, or any other means other than those described in the monitoring plan, and the method(s) specified in the plan could not detect the leak. Complete the revisions to the plan no later than 180 days after discovery of the leak. Subpart XX. [40 CFR 63.1086(c)(2)]

When using a surrogate to detect leaks into the water, maintain, at all times, the monitoring plan that is currently in use. Maintain the plan on-site, or make accessible from a central location by computer or other means that provide access within 2 hours after a request. If the monitoring plan is changed, retain the most recent superseded plan for at least 5 years from the date of its creation. Retain the superseded plan on-site or accessible from a central location by computer or other means that provide access within 2 hours after a request. Subpart XX. [40 CFR 63.1086(c)(3)]

Repair leaks as soon as practical but not later than 45 calendar days after receiving the results of monitoring tests that indicated a leak. Repair leaks unless it can be demonstrated that the results are due to a condition other than a leak. Subpart XX. [40 CFR 63.1087(a)]

Once a leak has been repaired, use the monitoring requirements in 40 CFR 63.1086 within 7 calendar days of the repair or startup, whichever is later, to confirm that the heat exchange system has been repaired. Subpart XX. [40 CFR 63.1087(b)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.1089(a) through (e), according to the requirements of 40 CFR 63.1109(c). Subpart XX.

Report any delay of repair in the semianual report required by 40 CFR 63.1110(e). If the leak remains unrepairs, continue to report the delay of repair in semianual reports until the leak is repaired. Include the information in 40 CFR 63.1090(a) through (e) in the semianual report. Subpart XX.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for heat exchange systems is determined as MACT.

EQT0679 C-05A - EPLA-W COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0679 C-05A - EPLA-W COOLING TOWER (MAINTRAIN ETHYLENE PRODUCTION FACILITIES)

- 28 [40 CFR 63.1086(b)] HAP monitored by the regulation's specified method(s) monthly for 6 months, both initially and following completion of a leak repair. Monitor cooling water at the entrance and exit of each heat exchanger for the HAP listed in 40 CFR 63 Subpart XX Table 1 or other representative substances that indicate the presence of a leak using any method listed in 40 CFR part 136 or the methods specified in 40 CFR 63.1086(d). Then, if no leaks are detected by monitoring monthly for 6 month period, monitor quarterly thereafter until a leak is detected. If a leak is detected, monitor monthly until the leak has been repaired. Upon completion of repair, monitor according to the specifications in 40 CFR 63.1086(b)(1)(i). Subpart XX. [40 CFR 63.1086(b)]
- Which Months: All Year Statistical Basis: None specified
- When using a surrogate to detect leaks into the water, prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling waters. Ensure that the plan requires monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.1086(c)(1)(i) through (c)(1)(iv). Subpart XX. [40 CFR 63.1086(c)(1)]
- When using a surrogate to detect leaks into the water, revise the monitoring plan and document the basis for the changes, if a leak is identified by audio, visual, or olfactory inspection, a method listed in 40 CFR part 136, or any other means other than those described in the monitoring plan, and the method(s) specified in the plan could not detect the leak. Complete the revisions to the plan no later than 180 days after discovery of the leak. Subpart XX. [40 CFR 63.1086(c)(2)]
- When using a surrogate to detect leaks into the water, maintain, at all times, the monitoring plan that is currently in use. Maintain the plan on-site, or make accessible from a central location by computer or other means that provide access within 2 hours after a request. If the monitoring plan is changed, retain the most recent superseded plan for at least 5 years from the date of its creation. Retain the superseded plan on-site or accessible from a central location by computer or other means that provide access within 2 hours after a request. Subpart XX. [40 CFR 63.1086(c)(3)]
- Repair leaks as soon as practical but not later than 45 calendar days after receiving the results of monitoring tests that indicated a leak. Repair leaks unless it can be demonstrated that the results are due to a condition other than a leak. Subpart XX. [40 CFR 63.1087(a)]
- Once a leak has been repaired, use the monitoring requirements in 40 CFR 63.1086 within 7 calendar days of the repair or startup, whichever is later, to confirm that the heat exchange system has been repaired. Subpart XX. [40 CFR 63.1087(b)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.1089(a) through (e), according to the requirements of 40 CFR 63.1109(c). Subpart XX.
- Report any delay of repair in the semianual report required by 40 CFR 63.1110(e). If the leak remains unrepaired, continue to report the delay of repair in semianual reports until the leak is repaired. Include the information in 40 CFR 63.1090(a) through (e) in the semianual report. Subpart XX.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for heat exchange systems is determined as MACT.

EQT0680 C-08C - GFLA-2/5/6 COOLING TOWERS (DILA FRONT END EMISSIONS)

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER2008005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

EQT0680 C-08C - GFLA-2/5/6 COOLING TOWERS (DILA FRONT END EMISSIONS)

- 37 [40 CFR 63.1086(b)] HAP monitored by the regulation's specified method(s) monthly for 6 months, both initially and following completion of a leak repair. Monitor cooling water at the entrance and exit of each heat exchanger for the HAP listed in 40 CFR 63 Subpart XX Table 1 or other representative substances that indicate the presence of a leak using any method listed in 40 CFR part 136 or the methods specified in 40 CFR 63.1086(d). Then, if no leaks are detected by monitoring monthly for a 6 month period, monitor quarterly thereafter until a leak is detected. If a leak is detected, monitor monthly until the leak has been repaired. Upon completion of repair, monitor according to the specifications in 40 CFR 63.1086(b)(1)(i). Subpart XX. [40 CFR 63.1086(b)]
- Which Months: All Year Statistical Basis: None specified
- When using a surrogate to detect leaks into the water, prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling waters. Ensure that the plan requires monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.1086(c)(1) through (c)(1)(iv). Subpart XX. [40 CFR 63.1086(c)(1)]
- When using a surrogate to detect leaks into the water, revise the monitoring plan and document the basis for the changes, if a leak is identified by audio, visual, or olfactory inspection, a method listed in 40 CFR part 136, or any other means other than those described in the monitoring plan, and the method(s) specified in the plan could not detect the leak. Complete the revisions to the plan no later than 180 days after discovery of the leak. Subpart XX. [40 CFR 63.1086(c)(2)]
- When using a surrogate to detect leaks into the water, maintain, at all times, the monitoring plan that is currently in use. Maintain the plan on-site, or make accessible from a central location by computer or other means that provide access within 2 hours after a request. If the monitoring plan is changed, retain the most recent superseded plan for at least 5 years from the date of its creation. Retain the superseded plan on-site or accessible from a central location by computer or other means that provide access within 2 hours after a request. Subpart XX. [40 CFR 63.1086(c)(3)]
- Repair leaks as soon as practical but not later than 45 calendar days after receiving the results of monitoring tests that indicated a leak. Repair leaks unless it can be demonstrated that the results are due to a condition other than a leak. Subpart XX. [40 CFR 63.1087(a)]
- Once a leak has been repaired, use the monitoring requirements in 40 CFR 63.1086 within 7 calendar days of the repair or startup, whichever is later, to confirm that the heat exchange system has been repaired. Subpart XX. [40 CFR 63.1087(b)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.1089(a) through (e), according to the requirements of 40 CFR 63.1109(c). Subpart XX.
- Report any delay of repair in the semiannual report required by 40 CFR 63.1110(e). If the leak remains unrepairs, continue to report the delay of repair in semiannual reports until the leak is repaired. Include the information in 40 CFR 63.1090(a) through (e) in the semiannual report. Subpart XX.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for heat exchange systems is determined as MACT.

EQT0681 M-64A - SECONDARY WASTEWATER EMISSIONS (MAIN TRAIN WASTEWATERS TO WILA)

- TREATMENT PROCESS: Remove benzene in the waste stream to <10 ppmw on a flow-weighted basis or remove benzene by at least 99 wt% on an annual average basis. [40 CFR 61.348(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

EQT0681 M-64A - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO WILA)

Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]

Comply with the requirements of 40 CFR 61 Subpart FF, with the changes in 40 CFR 63 Subpart XX Table 2 and 40 CFR 63.1095(a)(1)(i) through (a)(1)(v). Subpart XX. [40 CFR 63.1095(a)(1)]

Route the continuous butadiene stream to a treatment process or wastewater treatment system used to treat benzene waste streams that complies with the standards specified in 40 CFR 61.348. Subpart XX. [40 CFR 63.1095(a)(1)]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0682 M-64B - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO SOUR WATER STRIPPER)

TREATMENT PROCESS: Remove benzene in the waste stream to <10 ppmw on a flow-weighted basis or remove benzene by at least 99 wt% on an annual average basis. [40 CFR 61.348(a)(1)]

Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0682 M-64B - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO SOUR WATER STRIPPER)

- 59 [40 CFR 63.1095(b)] Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0683 M-64C - SECONDARY WASTEWATER EMISSIONS (MAINTRAIN WASTEWATERS TO AWT)

- 61 [40 CFR 61.342(c)(2)] For wastewater streams that have a flow-weighted annual average benzene concentration <10 ppmw, demonstrate at least once per year that the flow-weighted annual average benzene concentration is still <10 ppmw. [40 CFR 61.342(c)(2)]
 For wastewater streams that have a flow-weighted annual average benzene concentration <10 ppmw, maintain records for the waste stream, including all test results, measurements, calculations, and other documentation used to determine information. (i.e. annual average flow-weighted benzene concentration). [40 CFR 61.356(b)(1)]
 For wastewater streams that have a flow-weighted annual average benzene concentration <10 ppmw, include in the annual report, the information outlined in 61.357(a)(3) including the annual flow-weighted benzene concentration for the waste stream. [40 CFR 61.357(d)(2)]
 Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0684 M-64D - TANKFARM AREA RUNOFF TO EXXONMOBIL BRRF REFINERY WASTEWATER TREATMENT SYSTEM

- 66 [40 CFR 61.342(c)(2)] For wastewater streams that have a flow-weighted annual average benzene concentration <10 ppmw, demonstrate at least once per year that the flow-weighted annual average benzene concentration is still <10 ppmw. [40 CFR 61.342(c)(2)]
 For wastewater streams that have a flow-weighted annual average benzene concentration <10 ppmw, maintain records for the waste stream, including all test results, measurements, calculations, and other documentation used to determine information. (i.e. annual average flow-weighted benzene concentration). [40 CFR 61.356(b)(1)]
 For wastewater streams that have a flow-weighted annual average benzene concentration <10 ppmw, include in the annual report, the information outlined in 61.357(a)(3) including the annual flow-weighted benzene concentration for the waste stream. [40 CFR 61.357(d)(2)]
 Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0685 M-64E - OLA-2X SPENT CAUSTIC WASTEWATER STREAMS TO SCOLA SYSTEM

- 71 [40 CFR 61.348(a)(1)] TREATMENT PROCESS: Remove benzene in the waste stream to <10 ppmw on a flow-weighted basis or remove benzene by at least 99 wt% on an annual average basis. [40 CFR 61.348(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

EQT0685 M-64E - OLA-2X SPENT CAUSTIC WASTEWATER STREAMS TO SCOLA SYSTEM

- Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
- Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
- Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
- Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
- Control emissions of toxic air pollutants 10 to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ
- Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.
-
- EQT0686 S-01 - OLA-2X STEAM CRACKING FURNACE AF-01**
- Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- Which Months: All Year Statistical Basis: None specified
- Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
- Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
- Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
- Which Months: All Year Statistical Basis: None specified
- Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0686 S-01 - OLA-2X STEAM CRACKING FURNACE AF-01

- 85 [LAC 33:III.2201.D.1]
 Nitrogen oxides <= 0.08 lb/MMBTU.
 Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0687 S-02 - OLA-2X STEAM CRACKING FURNACE BF-01

- 88 [40 CFR 60.662(a)]
 Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation. BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.
 Nitrogen oxides <= 0.08 lb/MMBTU.
 Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0688 S-03 - OLA-2X STEAM CRACKING FURNACE CF-01

- 98 [40 CFR 60.662(a)]
 Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation. BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0688 S-03 - OLA-2X STEAM CRACKING FURNACE CF-01

100 [40 CFR 60.] Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

Nitrogen oxides <= 0.08 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0689 S-06 - OLA-2X STEAM CRACKING FURNACE FF-01

Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER2008005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0689 S-06 - OLA-2X STEAM CRACKING FURNACE FF-01

115 [LAC 33:III.2201.D.1]

Nitrogen oxides <= 0.08 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

116 [LAC 33:III.2201.I.1]

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

117 [LAC 33:III.2201.I.]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0690 S-07 - OLA-2X STEAM CRACKING FURNACE GF-01

118 [40 CFR 60.662(a)]

Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]

Which Months: All Year Statistical Basis: None specified

Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

119 [40 CFR 60.]

Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP

Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

120 [40 CFR 60.]

Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

121 [40 CFR 63.1103(e)(1)]

Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input.

122 [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

123 [LAC 33:III.1313.C]

Nitrogen oxides <= 0.08 lb/MMBTU.

124 [LAC 33:III.1513]

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

125 [LAC 33:III.2201.D.1]

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

126 [LAC 33:III.2201.I.1]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0691 S-08 - OLA-2X STEAM CRACKING FURNACE HF-01

127 [40 CFR 60.662(a)]

Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]

Which Months: All Year Statistical Basis: None specified Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0691 S-08 - OLA-2X STEAM CRACKING FURNACE HF-01

- 130 [40 CFR 60.] Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP
 Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

Nitrogen oxides <= 0.08 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0692 S-09 - GAS TURBINE NG-01

Nitrogen oxides < 150 ppmv at 15% oxygen and on a dry basis in gases discharged to the atmosphere. Use analytical methods and procedures that are accurate to within 5 percent and are approved by DEQ to determine the nitrogen content of the fuel being fired per 40 CFR 60.335(a).

Subpart GG. [40 CFR 60.332(a)(2)]

Which Months: All Year Statistical Basis: None specified

Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]

Which Months: All Year Statistical Basis: None specified

Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(ii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0692 S-09 - GAS TURBINE NG-01

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

Nitrogen oxides <= 0.16 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Nitrogen oxides monitored by technically sound method continuously.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Submit Notification: Due at least 30 days prior to any compliance testing conducted under LAC 33:III.2201.G and any CEMS or PEMS performance evaluation conducted under LAC 33:III.2201.H in order to give DEQ an opportunity to conduct a pretest meeting and observe the emission testing.

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0693 S-102 - OLA-2X FF,GF, AND HF FURNACE DECOOKING DRUM VENT

Furnace stack emissions during decoking operations are emission points that are part of the affected source for an ethylene production unit.

Emissions from decoking operations are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

EQT0694 S-105 - ECLA-W/EPLA-W STEAM CRACKING FURNACE MCF-01

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0694 S-105 - ECLA-W/EPLA-W STEAM CRACKING FURNACE MCF-01

- 157 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 158 [40 CFR 60.] Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or trapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 159 [40 CFR 60.] Which Months: All Year Statistical Basis: None specified
 Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
- 160 [40 CFR 63.1103(e)(1)] Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33.III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.
- 161 [LAC 33.III.1101.B] Nitrogen oxides ≤ 0.08 lb/MMBTU.
 Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Submit test results: Due within 60 days after completing the emission testing required in LAC 33.III.2201.1.1.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33.III.2201.1.3 and 1.4 as applicable.
- 162 [LAC 33.III.1313.C] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 163 [LAC 33.III.1515.I] Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or trapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 164 [LAC 33.III.2201.D.1] Which Months: All Year Statistical Basis: None specified
 Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 165 [LAC 33.III.2201.I.1] Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or trapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 166 [LAC 33.III.2201.I] Which Months: All Year Statistical Basis: None specified

EQT0695 S-106 - ECLA-W/EPLA-W STEAM CRACKING FURNACE MDF-01

- 167 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 168 [40 CFR 60.] Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or trapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 169 [40 CFR 60.] Which Months: All Year Statistical Basis: None specified
- 170 [40 CFR 63.1103(e)(1)]
- 171 [LAC 33.III.1101.B]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0695 S-106 - ECLA-WIEPLA-W STEAM CRACKING FURNACE MDF-01

- 172 [LAC 33:III.1313.C] Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.
- 173 [LAC 33:III.1513] Nitrogen oxides ≤ 0.08 lb/MMBTU.
 Which Months: May-Sep Statistical Basis: Thirty-day rolling average
 Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0696 S-109 - NACC PORTABLE AIR COMPRESSOR

- 174 [LAC 33:III.2201.D.1] Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
- 175 [LAC 33:III.2201.I.1] Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

EQT0697 S-21 - REGENERATION HEATERS MKF-01/MKF-01

- 177 [LAC 33:III.1101.B] Total Organic Compounds (less methane and ethane) ≥ 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.
- 178 [LAC 33:III.1313.C]
- 179 [LAC 33:III.1513]
- 180 [40 CFR 60.662(a)]
- 181 [40 CFR 60.]
- 182 [40 CFR 60.]
- 183 [LAC 33:III.1101.B]
- 184 [LAC 33:III.1313.C]
- 185 [LAC 33:III.1513]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0698 S-26 - ECLA-W/EPLAW STEAM CRACKING FURNACE MXF-01

- 186 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 187 [40 CFR 60.] Which Months: All Year Statistical Basis: None specified Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 188 [40 CFR 60.] Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 189 [40 CFR 63.1103(e)(1)] Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
- 190 [LAC 33:III.1101.B] Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or landing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 191 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
- 192 [LAC 33:III.1513] Which Months: All Year Statistical Basis: None specified Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.
- 193 [LAC 33:III.2201.D.1] Nitrogen oxides ≤ 0.08 lb/MMBTU.
- 194 [LAC 33:III.2201.I.1] Which Months: May-Sep Statistical Basis: Thirty-day rolling average Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 195 [LAC 33:III.2201.I.1] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0699 S-33 - MOX BOILER MZB-01

- 196 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 197 [40 CFR 60.] Which Months: All Year Statistical Basis: None specified Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 198 [40 CFR 60.] Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 199 [40 CFR 63.113(a)(2)] Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

EQT0699 S-33 - MOX BOILER MZB-01

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

Nitrogen oxides <= 0.1 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

Controlling the emissions to 98% destruction removal efficiency or 20 ppmw is determined as MACT.

EQT0700 S-34 - MOX BOILER MZB-02

Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]

Which Months: All Year Statistical Basis: None specified

Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP

Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).

For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR

63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

200 [LAC 33:III.1101.B]

201 [LAC 33:III.1313.C]

202 [LAC 33:III.1513]

203 [LAC 33:III.2201.D.1]

204 [LAC 33:III.2201.I.1]

205 [LAC 33:III.2201.I.]

206 [LAC 33:III.5109.A]

207 [40 CFR 60.662(a)]

208 [40 CFR 60.]

209 [40 CFR 60.]

210 [40 CFR 63.113(a)(2)]

211 [LAC 33:III.1101.B]

212 [LAC 33:III.1313.C]

213 [LAC 33:III.1513]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0700 S-34 - MOX BOILER MZB-02

- 214 [LAC 33:III.2201.D.1] Nitrogen oxides <= 0.1 lb/MMBTU.
- 215 [LAC 33:III.2201.I.1] Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 216 [LAC 33:III.2201.I.] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 217 [LAC 33:III.5109.A] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Controlling the emissions to 98% destruction removal efficiency or 20 ppmw is determined as MACT.

EQT0701 S-35 - MOX BOILER MZB-03

- 218 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 219 [40 CFR 60.] Which Months: All Year Statistical Basis: None specified Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 220 [40 CFR 60.] Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 221 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 222 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 223 [LAC 33:III.1513] Which Months: All Year Statistical Basis: None specified Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.
- 224 [LAC 33:III.2201.D.1] Nitrogen oxides <= 0.1 lb/MMBTU.
- 225 [LAC 33:III.2201.I.1] Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 226 [LAC 33:III.2201.I.] Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0702 S-36 - MOX BOILER MZB-04

- 227 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 228 [40 CFR 60.] Which Months: All Year Statistical Basis: None specified Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0702 S-36 - MOX BOILER MZB-04

Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP
 Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

Nitrogen oxides <= 0.1 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0703 S-74 - MOX BOILER MZB-05

Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]

Which Months: All Year Statistical Basis: None specified Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP
 Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

Nitrogen oxides <= 0.1 lb/MMBTU.

Which Months: May-Sep Statistical Basis: Thirty-day rolling average

Submit test results: Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

SPECIFIC REQUIREMENTS

AID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0704 S-84 - OLA-2X STEAM CRACKING FURNACE EF-01

- 245 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 246 [40 CFR 60.] Which Months: All Year Statistically Basis: None specified Continuously monitor the temperature and maintain records of the hourly average temperatures for each combustion unit. Provide documentation of all one-hour periods when the unit was not in operation, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 247 [40 CFR 60.] Report semi-annually, all one-hour periods when the combustion device was not in operation and any change that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 248 [40 CFR 63.1103(e)(1)] Ethylene cracking furnaces are emission points that are part of the affected source for an ethylene production unit. Emissions from ethylene cracking furnaces are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
- 249 [LAC 33:III.1101.B] Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 250 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
- 251 [LAC 33:III.1513] Which Months: All Year Statistical Basis: None specified Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.
- 252 [LAC 33:III.2201.D.1] Nitrogen oxides ≤ 0.08 lb/MMBTU.
- 253 [LAC 33:III.2201.I.1] Which Months: May-Sep Statistical Basis: Thirty-day rolling average Submit test results. Due within 60 days after completing the emission testing required in LAC 33:III.2201.I.1.
- 254 [LAC 33:III.2201.I.1] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable.

EQT0705 S-87 - OLA-2X AF/BF/CF FURNACE DECOCKING DRUM VENT

- 255 [40 CFR 63.1103(e)(1)] Furnace stack emissions during decoking operations are emission points that are part of the affected source for an ethylene production unit. Emissions from decoking operations are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
- 256 [LAC 33:III.1101.B] Opacity ≤ 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 257 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate ≤ 0.6 lb/MMBTU of heat input.
- 258 [LAC 33:III.1513] Which Months: All Year Statistical Basis: None specified Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

EQT0706 S-89 - ECLA-W DECOOKING DRUM VENT

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0706 S-89 - ECLA-W DECOCKING DRUM VENT

- 259 [40 CFR 63.1103(e)(1)] Furnace stack emissions during decoking operations are emission points that are part of the affected source for an ethylene production unit.
 Emissions from decoking operations are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 260 [LAC 33:III.1.101.B] Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

EQT0707 S-90 - OLA-2X EF FURNACE DECOKE DRUM VENT

- 263 [40 CFR 63.1103(e)(1)] Furnace stack emissions during decoking operations are emission points that are part of the affected source for an ethylene production unit.
 Emissions from decoking operations are not subject to any of the requirements in 63.1103(e)(3). Subpart YY. [40 CFR 63.1103(e)(1)]
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lanceing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 264 [LAC 33:III.1.101.B] Which Months: All Year Statistical Basis: None specified
 Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

EQT0708 T-1655 - QUENCH OIL STORAGE TANK

- This storage vessel has a capacity >95 cubic meters, but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0709 T-1658 - STEAM CRACKED LIQUID STORAGE TANK

- This storage vessel has a capacity >95 cubic meters, but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0710 T-1659 - STEAM CRACKED LIQUID STORAGE TANK

271 [40 CFR 63.1103(e)]

272 [LAC 33:III.5109.A]

This storage vessel has a capacity >95 cubic meters, but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0711 T-1664 - STEAM CRACKED LIQUID STORAGE TANK

273 [40 CFR 63.1103(e)]

274 [LAC 33:III.5109.A]

This storage vessel has a capacity >95 cubic meters, but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0712 T-1677 - QUENCH OIL STORAGE TANK

275 [40 CFR 63.1103(e)]

276 [LAC 33:III.5109.A]

This storage vessel has a capacity >95 cubic meters, but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0713 T-1733 - STEAM CRACKED LIQUID STORAGE TANK

277 [40 CFR 63.1103(e)]

278 [LAC 33:III.5109.A]

This storage vessel has a capacity >95 cubic meters, but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0714 T-1734 - HYDROTREATER FEED TANK

279 [40 CFR 63.1103(e)]

280 [LAC 33:III.5109.A]

This storage vessel has a capacity >95 cubic meters, but the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0715 T-1737 - SULFIDIC CAUSTIC STORAGE TANK

281 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 No control is determined as MACT.

EQT0716 T-1968X - METHANOL STORAGE TANK

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

EQT0716 T-1968X - METHANOL STORAGE TANK

282 [LAC 33:III.2103.B]

Equip with a submerged fill pipe.
Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

284 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Class III TAPs. MACT determination is not required.

EQT0717 T-236 - WHEEL WASH LIQUID STORAGE DRUM (HD-14)

285 [40 CFR 63.1103(e)]

This storage vessel has a capacity <4 cubic meters and the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]

286 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0718 T-282 - HEAVY NAPHTHA / STEAM CRACKED NAPHTHA / SPILLER BOTTOMS STORAGE TANK

287 [40 CFR 63.1103(e)]

This storage vessel has a capacity >95 cubic meters, but the organic HAP maximum true vapor pressure is >3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]

288 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0719 T-302 - WATER DISSENGAGING DRUM (BDD-302)

289 [40 CFR 61.357(d)(2)]

For waste streams that have a flow-weighted annual average benzene concentration <10 ppmw, include in the annual report, the information outlined in 61.357(a)(3) including the annual flow-weighted benzene concentration for the waste stream [40 CFR 61.357(d)(2)]

290 [40 CFR 63.1095(b)]

Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]

291 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0721 T-3067 - JD-06 WATER DRAWDOWN DRUM

292 [40 CFR 61.342(c)(3)]

For waste streams that are exempted from the control requirements and included in the site-wide 2.0 Mg total, demonstrate at least once per year that the site-wide exempted total does not exceed 2.0 Mg. [40 CFR 61.342(c)(3)]

293 [40 CFR 61.342(c)(3)]

Tank: For each tank into which benzene-containing waste with a flow-weighted annual average benzene concentration ≥ 10 ppmw is placed, the waste stream must be included on the BRCP facilitywide 2.0 Mg exemption list. [40 CFR 61.342(c)(3)]

294 [40 CFR 61.356]

Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0721 T-3067 - JD-06 WATER DRAWDOWN

- 295 [40 CFR 61.357(d)(3)]
 Submit a report annually that includes each waste stream chosen for exemption and the total annual benzene quantity in these exempted streams.
 [40 CFR 61.357(d)(3)]
 Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0722 T-3068 - LD-06 WATER DRAWDOWN

- 298 [40 CFR 61.342(c)(3)]
 For waste streams that are exempted from the control requirements and included in the site-wide 2.0 Mg total, demonstrate at least once per year that the site-wide exempted total does not exceed 2.0 Mg. [40 CFR 61.342(c)(3)]
 Tank: For each tank into which benzene-containing waste with a flow-weighted annual average benzene concentration $\geq 10 \text{ ppmw}$ is placed, the waste stream must be included on the BRCP facilitywide 2.0 Mg exemption list. [40 CFR 61.342(c)(3)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
 Submit a report annually that includes each waste stream chosen for exemption and the total annual benzene quantity in these exempted streams.
 [40 CFR 61.357(d)(3)]
 Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0723 T-3069 - KD-10 CAUSTIC WATER DRUM (MKD-10)

- 299 [40 CFR 61.342(c)(3)]
 For waste streams that are exempted from the control requirements and included in the site-wide 2.0 Mg total, demonstrate at least once per year that the site-wide exempted total does not exceed 2.0 Mg. [40 CFR 61.342(c)(3)]
 Tank: For each tank into which benzene-containing waste with a flow-weighted annual average benzene concentration $\geq 10 \text{ ppmw}$ is placed, the waste stream must be included on the BRCP facilitywide 2.0 Mg exemption list. [40 CFR 61.342(c)(3)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
 Submit a report annually that includes each waste stream chosen for exemption and the total annual benzene quantity in these exempted streams.
 [40 CFR 61.357(d)(3)]
 Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

EQT0724 T-3092 - MAINTRAIN COMPRESSOR WHEEL WASH DRUM

- This storage vessel has a capacity <4 cubic meters and the organic HAP maximum true vapor pressure is <3.4 kPa. Therefore, the source is not subject to any requirements of 40 CFR 63 Subpart YY. [40 CFR 63.1103(e)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0726 T-411, Normal Scenario - NGLs / NAPHTHAS / RAFFINATE / KEROSENE / REFORMER FEEDS AND PRODUCTS TANK

- Comply with 40 CFR 63.982(d) by routing the HAPs to a fuel gas system. Subpart YY. [40 CFR 63.1103(e)]
 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
 Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2.I03.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2.I03.I.1 - 7, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0727 T-412, Normal Scenario - NGLs / NAPHTHAS / RAFFINATE / KEROSENE / REFORMER FEEDS AND PRODUCTS TANK

- Comply with 40 CFR 63.982(d) by routing the HAPs to a fuel gas system. Subpart YY. [40 CFR 63.1103(e)]
 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
 Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2.I03.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2.I03.I.1 - 7, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0728 T-416, Normal Scenario - NGLs / NAPHTHA / RAFFINATE / KEROSENE / REFORMER FEED & PRODUCTS / XYLENES TANK

- Comply with 40 CFR 63.982(d) by routing the HAPs to a fuel gas system. Subpart YY. [40 CFR 63.1103(e)]
 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
 Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2.I03.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2.I03.I.1 - 7, as applicable.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER2008005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0728 T-416, Normal Scenario - NGs / NAPHTHA / RAFFINATE / KEROSENE / REFORMER FEED & PRODUCTS / XYLENES TANK
 326 [LAC 33.III.5109.A]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0729 T-665 - SULFIDIC CAUSTIC STORAGE TANK

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Based on low concentration of TAPs, no control is determined as MACT. Tank is downstream of treatment subject to the requirements of 63 Subpart XX.

EQT0730 T-771, Normal Scenario - NGs / NAPHTHAS / RAFFINATE / KEROSENES / REFORMER FEEDS AND PRODUCTS TANK

Organic HAP $\geq 98\%$ reduction by weight, or organic HAP or TOC ≤ 20 ppmv, whichever is less stringent, by venting emissions through a closed-vent system to any combination of control devices as specified in 40 CFR 63.1105. Subpart YY. [40 CFR 63.1103(e)(3)]
 Which Months: All Year Statistical Basis: None specified
 Comply with 40 CFR 63.982(d) by routing the HAPs to a fuel gas system. Subpart YY. [40 CFR 63.1103(e)]
 Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seat or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
 Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
 VOC, Total $\geq 95\%$ control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
 Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2103.1.1 - 7, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0731 T-784 - STEAM CRACKED NAPHTHA TANK (EPR)

Tank roof and seals monitored by visual inspection/determination once before initial filling, as specified in 40 CFR 63.1063(d)(1). Subpart WW. [40 CFR 63.1063(e)(1)]
 Which Months: All Year Statistical Basis: None specified
 Include the information specified in 40 CFR 63.1066(b)(1) through (b)(4) as part of the Periodic Report. Subpart WW. [40 CFR 63.1066(b)]
 Comply with applicable the requirements of 40 CFR 63 Subpart WW. Subpart YY. [40 CFR 63.1103(e)(3)]
 Equip with a submerged fill pipe and external floating roof.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

EQT0731 T-784 - STEAM CRACKED NAPHTHA TANK (EFR)

- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.
- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
- Which Months: All Year Statistical Basis: None specified
- Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
- Which Months: All Year Statistical Basis: None specified
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
- Which Months: All Year Statistical Basis: None specified
- Control nonslotted guide poles and stilling wells using pole wipers and gasketing between the well and sliding cover. Control slotted guide poles using a float with wiper, pole wiper, and gasketing between the well and sliding cover.
- Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, prior to installation of guide poles and stilling well systems. Submit a description of the method of control and supporting calculations based upon the Addendum to American Petroleum Institute Publication Number 2517 Evaporative Loss from External Floating Roof Tanks, May 1994, for approval.
- Equipment/operational data monitored by visual inspection/determination semiannually. Inspect control systems required by LAC 33:III.2103.D.4 for rips, tears, visible gaps in the pole or float wiper, and/or missing sliding cover gaskets.
- Which Months: All Year Statistical Basis: None specified
- Initiate repairs of any rips, tears, visible gaps in the pole or float wiper, and/or missing sliding cover gaskets by ordering appropriate parts within seven working days after defect is identified, to avoid noncompliance with LAC 33:III.2103.D.4. Complete repairs within three months of the ordering of the repair parts.
- Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0764 T-1660 - BUTANES STORAGE SPHERE

- Organic HAP \geq 98 % reduction by weight, or organic HAP or TOC \leq 20 ppmv, whichever is less stringent, by venting emissions through a closed-vent system to any combination of control devices as specified in 40 CFR 63.1105. Subpart YY. [40 CFR 63.1103(e)(3)]
- Which Months: All Year Statistical Basis: None specified
- Comply with 40 CFR 63.982(d) by routing the HAPs to a fuel gas system. Subpart YY. [40 CFR 63.1103(e)]

SPECIFIC REQUIREMENTS**AJ ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant****Activity Number: PER20080005****Permit Number: 2031-V7****Air - Title V Regular Permit Minor Mod****EQT0764 T-1660 - BUTANES STORAGE SPHERE**

- 355 [40 CFR 63.983(a)(3)(ii)] Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
- 356 [40 CFR 63.999(c)] Submit Periodic Report. Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
- VOC, Total \geq 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e. Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0765 T-1916 - ISOPRENE, BUTYLENE, DILA FEED, AMYLENE, AND BUTENES STORAGE SPHERE

- Organic HAP \geq 98 % reduction by weight, or organic HAP or TOC \leq 20 ppmv, whichever is less stringent, by venting emissions through a closed-vent system to any combination of control devices as specified in 40 CFR 63.1105. Subpart YY. [40 CFR 63.1103(e)(3)]
- Which Months: All Year Statistical Basis: None specified
- Comply with 40 CFR 63.982(d) by routing the HAPs to a fuel gas system. Subpart YY. [40 CFR 63.1103(e)]
- Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
- Submit Periodic Report. Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
- VOC, Total \geq 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- Which Months: All Year Statistical Basis: None specified
- Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e. Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0766 T-3064 - SOUR WATER STRIPPER FEED DRUM(KZD-73)

- Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0766 T-3064 - SOUR WATER STRIPPER FEED DRUM(KZD-73)

- 370 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- 371 [40 CFR 61.343(d)] Which Months: All Year Statistical Basis: None specified Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 372 [40 CFR 61.349(a)(1)(i)] Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
- 373 [40 CFR 61.349(f)] Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
- 374 [40 CFR 61.349(g)] Which Months: All Year Statistical Basis: None specified Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
- 375 [40 CFR 61.354(f)(1)] Closed-vent system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(f)(1)]
- 376 [40 CFR 61.356] Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 377 [40 CFR 61.357(d)(6)] Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
- 378 [40 CFR 61.357(d)(7)] Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
- 379 [40 CFR 61.357(d)(8)] Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
- 380 [40 CFR 63.1095(b)] Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
- 381 [LAC 33.III.2103.B] Equip with a vapor loss control system.
- 382 [LAC 33.III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2.103.H.3.a-e.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER2008005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0766 T-3064 - SOUR WATER STRIPPER FEED DRUM(KZD-73)

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2(03.1) · 7, as applicable.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0767 T-3070 - SPENT CAUSTIC DRUM (MKD-06)

385 [40 CFR 61.343(a)(1)(i)(A)]

Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
 Which Months: All Year Statistical Basis: None specified
 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
 Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]

Which Months: All Year Statistical Basis: None specified
 Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

390 [40 CFR 61.349(g)]

Closed-vent system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(d)(1)]
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
 Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0767 T-3070 - SPENT CAUSTIC DRUM (MKD-06)

- 395 [40 CFR 61.357(d)(8)]
Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
- Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0768 T-3085 - WATER KNOCK-OUT DRUM (UPDR-107)

- 398 [40 CFR 61.343(a)(1)(i)(A)]
Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.350(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- Which Months: All Year Statistical Basis: None specified
Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
- Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
- Which Months: All Year Statistical Basis: None specified
Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
- Closed-vent system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(f)(1)]
- Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

EQT0768 T-3085 - WATER KNOCK-OUT DRUM (UPDR-107)

- 406 [40 CFR 61.357(d)(6)]
 Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
- 407 [40 CFR 61.357(d)(7)]
 Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
- 408 [40 CFR 61.357(d)(8)]
 Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
- 409 [40 CFR 63.1095(b)]
 Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
- 410 [LAC 33:III.2103.B]
 Equip with a vapor loss control system.
- 411 [LAC 33:III.2103.H.3]
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 412 [LAC 33:III.2103.I]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 413 [LAC 33:III.5109.A]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

EQT0769 T-90 - HEAVY NAPHTHA/STEAM CRACKED NAPHTHA/SPLITTER BOTTOMS STORAGE TANK

- 414 [40 CFR 63.1103(e)]
 Comply with 40 CFR 63.982(d) by routing the HAPs to a fuel gas system. Subpart YY. [40 CFR 63.1103(e)]
- 415 [LAC 33:III.2103.E.1]
 VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
- 416 [LAC 33:III.2103.H.3]
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 417 [LAC 33:III.2103.I]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 418 [LAC 33:III.5109.A]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0834 T-411, Alternate Scenario - NGLs / NAPHTHAS / RAFFINATE / KEROSENE / REFORMER FEEDS AND PRODUCTS TANK

- 419 [40 CFR 63.1063(c)(1)]
 Tank roof and seals monitored by visual inspection/determination once before initial filling, as specified in 40 CFR 63.1063(d)(1). Subpart WW. [40 CFR 63.1063(c)(1)]
- 420 [40 CFR 63.1066(b)]
 Which Months: All Year Statistical Basis: None specified
 Include the information specified in 40 CFR 63.1066(b)(1) through (b)(4) as part of the Periodic Report. Subpart WW. [40 CFR 63.1066(b)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER2008005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

EQT0834 T-411, Alternate Scenario - NGLs / NAPHTHAS / RAFFINATE / KEROSENE / REFORMER FEEDS AND PRODUCTS TANK

- 421 [40 CFR 63.1103(e)(3)] Comply with applicable the requirements of 40 CFR 63 Subpart WW. Subpart YY. [40 CFR 63.1103(e)(3)]
 Equip with a submerged fill pipe and internal floating roof.
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

EQT0835 T-412, Alternate Scenario - NGLs / NAPHTHAS / RAFFINATE / KEROSENE / REFORMER FEEDS AND PRODUCTS TANK

- 426 [40 CFR 63.1063(c)(1)] Tank roof and seals monitored by visual inspection/determination once before initial filling, as specified in 40 CFR 63.1063(d)(1). Subpart WW. [40 CFR 63.1063(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Include the information specified in 40 CFR 63.1066(b)(1) through (b)(4) as part of the Periodic Report. Subpart WW. [40 CFR 63.1066(b)]
 Comply with applicable the requirements of 40 CFR 63 Subpart WW. Subpart YY. [40 CFR 63.1103(e)(3)]
 Equip with a submerged fill pipe and internal floating roof.
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.
- 427 [40 CFR 63.1066(b)]
 428 [40 CFR 63.1103(e)(3)]
 429 [LAC 33:III.2103.B]
 430 [LAC 33:III.2103.H.3]
 431 [LAC 33:III.2103.J]
 432 [LAC 33:III.5109.A]
- 433 [40 CFR 63.1063(c)(1)] Tank roof and seals monitored by visual inspection/determination once before initial filling, as specified in 40 CFR 63.1063(d)(1). Subpart WW. [40 CFR 63.1063(c)(1)]
 Which Months: All Year Statistical Basis: None specified
 Include the information specified in 40 CFR 63.1066(b)(1) through (b)(4) as part of the Periodic Report. Subpart WW. [40 CFR 63.1066(b)]
 Comply with applicable the requirements of 40 CFR 63 Subpart WW. Subpart YY. [40 CFR 63.1103(e)(3)]
 Equip with a submerged fill pipe and internal floating roof.
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0837 T-771, Alternate Scenario - NGLs / NAPHTHAS / REFORMER FEEDS / KEROSENE / REFORMER FEEDS AND PRODUCTS TANK

- 440 [40 CFR 63.1063(c)(1)]
 Tank roof and seals monitored by visual inspection/determination once before initial filling, as specified in 40 CFR 63.1063(d)(1). Subpart WW. [40 CFR 63.1063(c)(1)]
- Which Months: All Year Statistical Basis: None specified
 Include the information specified in 40 CFR 63.1066(b)(1) through (b)(4) as part of the Periodic Report. Subpart WW. [40 CFR 63.1066(b)]
- Comply with applicable requirements of 40 CFR 63 Subpart WW. Subpart YY. [40 CFR 63.1103(e)(3)]
- Equip with a submerged fill pipe and internal floating roof.
- Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2|03.H.3.a-e.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.II.2|03.I.1 - 7, as applicable.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- Compliance with the requirements of 40 CFR 63 Subpart YY for storage vessels is determined as MACT.
- EQT0838 M-01T - C4/C5 LOADING (ACLA AND OILA RACKS)**
- 441 [40 CFR 63.1066(b)]
 Which Months: All Year Statistical Basis: None specified
 Include the information specified in 40 CFR 63.1066(b)(1) through (b)(4) as part of the Periodic Report. Subpart YY. [40 CFR 63.1103(e)(3)]
- Comply with applicable requirements of 40 CFR 63 Subpart YY. Subpart YY. [40 CFR 63.1103(e)(3)]
- Equip with a fuel gas system, or a vapor balance system, as specified in 40 CFR 63.1105. Subpart YY. [40 CFR 63.1103(e)(3)]
- Organic HAP \geq 98 % reduction by weight, or organic HAP or TOC \leq 20 ppmv, whichever is less stringent, by venting emissions through a closed-vent system to any combination of control devices as specified in 40 CFR 63.1105. Subpart YY. [40 CFR 63.1103(e)(3)]
- Which Months: All Year Statistical Basis: None specified
 Equip with one of the control options listed in 40 CFR 63.1105(a)(1) through (a)(4). Subpart YY. [40 CFR 63.1105(a)]
- Operate in such a manner that emissions are routed through the equipment specified in 40 CFR 63.1105(a). Subpart YY. [40 CFR 63.1105(b)]
- Ensure that no pressure relief device in the loading equipment of each tank truck or railcar begins to open to the atmosphere during loading.
 Subpart YY. [40 CFR 63.1105(e)]
- Load HAP-containing material only to tank trucks or railcars whose collection systems are connected to the transfer racks closed vent system or process piping. Subpart YY. [40 CFR 63.1105(g)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Record that the verification of DOT tank certification or 40 CFR 60 Appendix A, Test Method 27 testing required in 40 CFR 63.84(c) has been performed. Subpart YY. [40 CFR 63.1105(i)]
- Closed-vent systems (containing bypass lines): Flow monitored by flow indicator at the regulation's specified frequency. Ensure that the flow indicator is capable of taking periodic readings. Install at the entrance to any bypass line. Subpart SS. [40 CFR 63.983(a)(3)(i)]
- Which Months: All Year Statistical Basis: None specified
 Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
- Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
- VOC, Total \geq 90 % DRE, using a vapor disposal system.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

EQT0838 M-01T - C4/C5 LOADING (ACLA AND DILA RACKS)

- 458 [LAC 33:III.2.07.C] Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired.
- 459 [LAC 33:III.2.07.C] VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2.
- 460 [LAC 33:III.2.07.D] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 461 [LAC 33:III.5109.A] Compliance with the requirements of 40 CFR 63 Subpart YY for transfer operations is determined as MACT.

FUG0046 U-110 - MAINTRAIN FUGITIVE EMISSIONS

- 462 [40 CFR 60.Subpart J] Comply with 40 CFR 63 Subpart UU as referenced by 40 CFR 63 Subpart YY in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 463 [40 CFR 60.Subpart VV] Comply with 40 CFR 63 Subpart UU as referenced by 40 CFR 63 Subpart YY in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 464 [40 CFR 60.Subpart V] Comply with 40 CFR 63 Subpart UU as referenced by 40 CFR 63 Subpart YY in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 465 [LAC 33:III.1513] Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.
- 466 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 467 [LAC 33:III.2122] Comply with 40 CFR 63 Subpart UU as referenced by 40 CFR 63 Subpart YY in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 468 [LAC 33:III.5109 Non.HON M] Comply with 40 CFR 63 Subpart UU as referenced by 40 CFR 63 Subpart YY in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.

FUG0047 U-46G - DILA RACK FUGITIVES FOR C4/C5 LOADING

- 469 [40 CFR 60.Subpart J] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 470 [40 CFR 60.Subpart VV] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 471 [40 CFR 60.Subpart V] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 472 [40 CFR 63.Subpart YY] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 473 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 474 [LAC 33:III.2122] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 475 [LAC 33:III.5109 Non.HON M] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

FUG0048 U-47J - ACLA RACK FUGITIVES FOR C4/C5 LOADING

- 476 [40 CFR 60 Subpart J] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 477 [40 CFR 60 Subpart VV] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 478 [40 CFR 60 Subpart V] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 479 [40 CFR 63 Subpart YY] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 480 [LAC 33:III.2.111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 481 [LAC 33:III.2.122] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.
- 482 [LAC 33:III.5.109 Non.HON M] Comply with 40 CFR 63 Subpart H in accordance with streamlined LDAR fugitives monitoring program defined in Appendix A.

GRP0150 S-200 - STEAM CRACKING FURNACES CAP

Group Member: EQT0686 EQT0687 EQT0688 EQT0691 EQT0694 EQT0695 EQT0698 EQT0704

- 483 [40 CFR 70.] For the cracking furnaces in the OLA-2X and ECLA-W areas (S-1, S-2, S-3, S-6, S-7, S-8, S-26, S-84, S-105 & S-106), the maximum combined firing rate (CAP, Emission Point No. S-200) shall be limited to no more than 21,024,000 MM BTU/yr. The total fuel gas heat input to the cracking furnaces shall be recorded each month, as well as the total heat input to the cracking furnaces for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Heat input above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the cap firing rate for the preceding calendar year shall be submitted to the Enforcement Division by March 31. This cap was established in Permit 2031 (M-1) issued 7/24/92 to maintain SO2 emission increases less than 40 TPY.

GRP0151 S-210 - MOX BOILERS CAP

Group Member: EQT0699 EQT0700 EQT0701 EQT0702 EQT0703

- 484 [40 CFR 70.] For the five MOX boilers (Emission Point Nos. S-33, S-34, S-35, S-36, S-74), the maximum combined firing rate(CAP, Emission Point No. S-210) shall be limited to no more than 8,410,000 MM BTU/yr. The total fuel gas heat input to the five MOX boilers shall be recorded each month, as well as the total heat input to the five MOX boilers for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Heat input above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Section. A report showing the cap firing rate for the preceding calendar year shall be submitted to the Enforcement Division by March 31. This cap was established in Permit 2153 issued 7/31/92 to maintain SO2 emission increases less than 40 TPY.

RLP0110 M-79 - MAINTRAIN DESICCANT/CATALYST LOADING

- 485 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305 A.1-7.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER2008005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

RLP0110 M-79 - MAINTRAIN DESICCANT/CATALYST LOADING

486 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Using industry work practice controls to minimize dust emissions is determined as MACT. Applicable controls are dependent on the vessel configuration, type of catalyst and catalyst bed requirements. Controls include sock loading, hoper loading, covering the reactor during loading, sieving of catalyst by the vendor, wetting the catalyst or reduction of catalyst free-fall during the loading process.

RLP0111 V-398 - CONDENSATE DEAERATOR AND VENT DRUMS

487 [LAC 33:III.2115.K]

Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Monitoring the hydrocarbon concentration in the condensate is determined as MACT.

RLP0112 V-97 - EPLA-W ACETYLENE CONVERTER/PROPYLENE HYDROFINER (SD-35) VENT

489 [LAC 33:III.2115.K]

Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0117 V-07 - DETOLUENIZER TOWER

490 [40 CFR 63.1103(e)(3)]

491 [40 CFR 63.983(a)(3)(ii)]

Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)]
 Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]

Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Class III TAPs. MACT determination is not required.

RLP0118 V-239 - DISTILLATION TOWERS T-1X, T-10X(DILA FRONT END)

494 [LAC 33:III.2147.E.5.b]

Vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2147.F.1 through F.4, as applicable.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Using a closed-vent and control system is determined as MACT.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

RLP0119 V-341A - VENTS FROM VESSELS IN OLA-2X, EPLA-W, AND ECLA-W AREAS (NOT MACT)

- 497 [LAC 33.III.2147.E.5.b] Vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2147.F.1 through F.4, as applicable.
- 498 [LAC 33.III.2147.F] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 499 [LAC 33.III.5109.A] Using a closed-vent and control system is determined as MACT.

RLP0120 V-341B - VENTS FROM VESSELS IN OLA-2X, EPLA-W, AND ECLA-W AREAS (EMACT)

- 500 [40 CFR 63.1103(c)(3)] Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)]
 Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
 Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 501 [40 CFR 63.983(a)(3)(ii)] Compliance with the requirements of 40 CFR 63 Subpart YY for process vents is determined as MACT.

RLP0122 V-376 - OLA-2X (KZD-52) FLARE DRUM

- 504 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
 Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
 Which Months: All Year Statistical Basis: None specified
 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
 Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
 Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
 Which Months: All Year Statistical Basis: None specified
 Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

RLP0122 V-376 - OLA-2X (KZD-52) FLARE DRUM

510 [40 CFR 61.354(f)(1)] Closed-vent system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(f)(1)]
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
 Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
 Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]

Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
 Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)]
 Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
 Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]

Vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2147.F.1 through F.4, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

RLP0123 V-377 - ECLA-W (MZD-12) FLARE DRUM

522 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(l). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

RLP0123 V-377 - ECLA-W (MZD-12) FLARE DRUM

- Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- Which Months: All Year Statistical Basis: None specified
- Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]
- Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]
- Which Months: All Year Statistical Basis: None specified
- Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]
- Closed-vent system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(f)(1)]
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]
- Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]
- Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
- Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
- Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)]
- Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

RLP0123 V-377 - ECLA-W (MZD-12) FLARE DRUM

- 536 [40 CFR 63.999(c)] Submit Periodic Report. Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
 Vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2147.F.1 through F.4, as applicable.
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

RLP0124 V-379 - OVERHEAD STREAM FROM MST-01 -DEMETHANIZER

- Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
 Which Months: All Year Statistical Basis: None specified
 Continuously monitor the flow indicator of the vent stream. Maintain records of the hourly average vent flow indications, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Maintain the shutdown systems in good working order and maintain records of any problems with each system, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Report semi-annually: all periods when a vent stream is diverted from the specified control device or has no flow and any change in process equipment or operation that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
 Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

RLP0125 V-380 - OVERHEAD STREAM FROM MST-02 - DEETHANIZER

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

RLP0125 V-380 - OVERHEAD STREAM FROM MST-02 - DEETHANIZER

- 548 [40 CFR 60.662(a)] Total Organic Compounds (less methane and ethane) $\geq 98\%$ reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]
- 549 [40 CFR 60.] Which Months: All Year Statistical Basis: None specified Continuously monitor the flow indicator of the vent stream. Maintain records of the hourly average vent flow indications, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 550 [40 CFR 60.] Maintain the shutdown systems in good working order and maintain records of any problems with each system, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 551 [40 CFR 60.] Report semi-annually all periods when a vent stream is diverted from the specified control device or has no flow and any change in process equipment or operation that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- 552 [40 CFR 64.9(b)] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(ii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(ii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 553 [40 CFR 64.9(b)(1)] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 554 [40 CFR 64.9(b)(1)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 555 [40 CFR 64.9(b)(1)] Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

RLP0126 V-381 - OVERHEAD STREAM FROM MST-04 - DEPROPANIZER

- 556 [40 CFR 63.1103(e)(3)] Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)]
- 557 [40 CFR 63.983(a)(3)(ii)] Closed-vessel systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
- 558 [40 CFR 63.999(c)] Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
- 559 [LAC 33 III:5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for process vents is determined as MACT.

RLP0127 V-388 - SACC SOUR WATER STRIPPER

- 560 [40 CFR 61.343(d)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 561 [40 CFR 61.349(a)(1)(i)] Closed-vessel system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

RLP0127 V-388 - SACC SOUR WATER STRIPPER

Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]

Which Months: All Year Statistical Basis: None specified

Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]

Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]

Vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2147.F.1 through F.4, as applicable.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

RLP0128 V-396A - DISTILLATION TOWERS VENTS (MAINTRAIN) (NOT EMACT)

Total Organic Compounds (less methane and ethane) >= 98 % reduction by weight, or to a TOC (less methane and ethane) concentration of 20 ppmv, on a dry basis corrected to 3 percent oxygen, whichever is less stringent. Subpart NNN. [40 CFR 60.662(a)]

Which Months: All Year Statistical Basis: None specified Continuously monitor the flow indicator of the vent stream. Maintain records of the hourly average vent flow indications, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.

RLP0128 V-396A - DISTILLATION TOWERS VENTS (MAINTRAIN) (NOT EMACT)

572 [40 CFR 60.662(a)]

573 [40 CFR 60.]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER2008005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

RLP0128 V-396A - DISTILLATION TOWERS VENTS (MAINTRAIN) (NOT EMACT)

- Maintain the shutdown systems in good working order and maintain records of any problems with each system, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- Report semi-annually all periods when a vent stream is diverted from the specified control device or has no flow and any change in process equipment or operation that affects compliance, BRCP Alternate Monitoring Plan dated 5/20/91, Subpart NNN.
- Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

RLP0129 V-396B - DISTILLATION TOWERS VENTS (MAINTRAIN)(EMACT)

- Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)]
- Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
- Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for process vents is determined as MACT.

RLP0131 V-451 - DILATE FLARE DRUM

- Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- Fixed roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- Which Months: All Year Statistical Basis: None specified
- Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

RLP0131 V-451 - DIL A FLARE DRUM

587 [40 CFR 61.349(a)(1)(i)]

Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)] Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]

Which Months: All Year Statistical Basis: None specified

Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

Closed-vent system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the ear-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(f)(1)]

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(c)(8)]

Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]

Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)] Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]

Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]

Vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

RLP0131 V-451 - DILA FLARE DRUM

600 [LAC 33:III.2(47.F)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2(47.F.1 through F.4, as applicable.

601 [LAC 33:III.5(09.A)]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

RLP0132 V-452 - SPENT CAUSTIC SEPARATOR DRUM (FD-10)

602 [40 CFR 61.343(a)(1)(i)(A)]

Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

603 [40 CFR 61.343(a)(1)(i)(B)]

Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]

604 [40 CFR 61.343(a)(1)]

Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]

605 [40 CFR 61.343(c)]

Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]

606 [40 CFR 61.343(d)]

Which Months: All Year Statistical Basis: None specified Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

607 [40 CFR 61.348(a)(1)(i)]

Waste stream: Benzene < 10 ppmw (flow-weighted) or benzene >=99% removal (mass basis). Subpart FF. [40 CFR 61.348(a)(1)(i)]

608 [40 CFR 61.348(c)]

Which Months: All Year Statistical Basis: Annual average Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]

609 [40 CFR 61.348(e)(1)]

Seals and/or openings: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that openings are closed and gasketed properly. Subpart FF. [40 CFR 61.348(e)(1)]

610 [40 CFR 61.348(e)(2)]

Which Months: All Year Statistical Basis: None specified Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.348(e)(2)]

611 [40 CFR 61.348(e)]

Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e). Subpart FF. [40 CFR 61.348(e)]

612 [40 CFR 61.349(a)(1)(i)]

Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]

613 [40 CFR 61.349(g)]

Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

RLP0132 V-452 - SPENT CAUSTIC SEPARATOR DRUM (FD-10)

614 [40 CFR 61.354(a)]

615 [40 CFR 61.354(i)(1)]

Monitor the treatment process as allowed in 61.354(a)(1) or (a)(2) to ensure the unit is properly operated and maintained. [40 CFR 61.354(a)]
 Closed-event system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(f)(1)]

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]

Comply with the requirements of 40 CFR 61 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

RLP0133 V-454 - SCOLA OXIDIZER TOWER (FR-20) AND SEPARATOR DRUM (FD-50)

622 [40 CFR 64.9(a)]

Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

RLP0133_V-454 - SCOLA OXIDIZER TOWER (FR-20) AND SEPARATOR DRUM (FD-50)

626 [LAC 33:III.5109.A]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Controlling the emissions to 98% destruction removal efficiency or 20 ppmw by the thermal oxidizer is determined as MACT.

RLP0134_V-455 - DILA SOUR WATER DRUM (BDD-31)

627 [40 CFR 61.343(a)(1)(i)(A)]

Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

628 [40 CFR 61.343(c)]

Fixed roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]

629 [40 CFR 61.343(d)]

Which Months: All Year Statistical Basis: None specified
 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

630 [40 CFR 61.349(a)(1)(i)]

Closed-vent system: Operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.349(a)(1)(i)]

631 [40 CFR 61.349(f)]

Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter. Include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. Subpart FF. [40 CFR 61.349(f)]

632 [40 CFR 61.349(g)]

Which Months: All Year Statistical Basis: None specified
 Make a first effort to repair the closed-vent system and control device as soon as practicable but no later than 5 calendar days after visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, except as provided in 40 CFR 61.350. Complete repair no later than 15 calendar days after the emissions are detected or the visible defect is observed. Subpart FF. [40 CFR 61.349(g)]

633 [40 CFR 61.354(f)(1)]

Closed-vent system (bypass line): Seal or closure mechanism monitored by visual inspection/determination monthly. Check the position of the valve and the condition of the car-seal or closure mechanism required under 40 CFR 61.349(a)(1)(ii) to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Subpart FF. [40 CFR 61.354(f)(1)]

634 [40 CFR 61.356]

Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

635 [40 CFR 61.357(d)(6)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF. [40 CFR 61.357(d)(6)]

636 [40 CFR 61.357(d)(7)]

Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (d)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

RLP0134 V-455 - DILA SOUR WATER DRUM (BDD-31)

- 637 [40 CFR 61.351(d)(8)] Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]
 Comply with the requirements of 40 CFR 61 Subpart FF, except as specified in 40 CFR 63 Subpart XX Table 2. Subpart XX. [40 CFR 63.1095(b)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart XX for wastes is determined as MACT.

RLP0135 V-544 - HYDROGENATION SYSTEM FLASH DRUM (T-100)

- 640 [40 CFR 63.1103(e)(3)] Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)]
 Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
 Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for process vents is determined as MACT.

RLP0137 V-546 - HYDROGENATION PRODUCT FRACTIONATION TOWER (T-200)

- 644 [40 CFR 63.1103(e)(3)] Reduce HAP by using a flare meeting the requirements specified in 40 CFR 63.982(b). Subpart YY. [40 CFR 63.1103(e)(3)]
 Closed-vent systems (containing bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart SS. [40 CFR 63.983(a)(3)(ii)]
 Submit Periodic Report: Due as specified in the referencing subpart. Include the applicable information specified in 40 CFR 63.999(c)(1) through (c)(7). Subpart SS. [40 CFR 63.999(c)]
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with the requirements of 40 CFR 63 Subpart YY for process vents is determined as MACT.

TRT0001 S-86 - SCOLA THERMAL OXIDIZER

- 648 [LAC 33.III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or laning, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
- 649 [LAC 33.III.1313.C]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

TRT0001 S-86 - SCOLA THERMAL OXIDIZER

Maintain records to verify exemption from LAC 33:III.1503. Keep records on site and available for inspection. An alternate site to store records may be used with prior approval.

While the SCOLA offgas is being introduced into the SCOLA Thermal Oxidizer, the firebox temperature of the thermal oxidizer shall be above 1440 degree Fahrenheit (3-hour average).

Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2. a through e.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.

Controlling the emissions to 98% destruction removal efficiency or 20 ppmw by the thermal oxidizer is determined as MACT.

UNF0008 MAINTRAIN ETHYLENE PRODUCTION

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.

Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]

Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]

Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]

Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.

Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).

Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).

Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13).

Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).

Provide in the RMP the information indicated in 68.175(b) through (p).

Provide in the RMP the emergency response information listed in 68.180(a) through (c).

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

UNF0008 MAINTAIN ETHYLENE PRODUCTION

- 668 [40 CFR 68.185(b)] Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 669 [40 CFR 68.190(c)] Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 670 [40 CFR 68.190] Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999.
- 671 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 672 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
- 673 [40 CFR 68.25] Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
- 674 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).
- 675 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 676 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 677 [40 CFR 68.36(b)] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 678 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 679 [40 CFR 68.39] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.
- 680 [40 CFR 68.42] Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- 681 [40 CFR 68.65(a)] Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68. [40 CFR 68.65(a)]
- 682 [40 CFR 68.65(d)(2)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(d)(2)]
- 683 [40 CFR 68.65(d)(3)] Determine that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]
- 684 [40 CFR 68.65(d)(3)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner. [40 CFR 68.65(d)(3)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER2008005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

UNF0008 MAINTAIN ETHYLENE PRODUCTION

- 685 [40 CFR 68.67(a)] Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 686 [40 CFR 68.67(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 687 [40 CFR 68.67(b)] Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)]
- 688 [40 CFR 68.67(d)] Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)]
- 689 [40 CFR 68.67(e)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)]
- 690 [40 CFR 68.67(e)] Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(e)]
- 691 [40 CFR 68.67(f)] Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis; to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)]
- 692 [40 CFR 68.67(g)] Retain process hazards analyses and updates or validations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(c), for the life of the process. [40 CFR 68.67(g)]
- 693 [40 CFR 68.67] Perform an initial process hazard analysis (hazard evaluation) on processes covered by 40 CFR 68 as soon as possible, but not later than June 21, 1999. The process hazard analysis shall identify, evaluate, and control the hazards involved in the process, and address the information in 40 CFR 68.67(c)(1) through (7).
- 694 [40 CFR 68.69(a)] Develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 695 [40 CFR 68.69(b)] Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 696 [40 CFR 68.69(c)] Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 697 [40 CFR 68.69(d)] Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]
- 698 [40 CFR 68.71(a)(1)] Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.71(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

UNF0008 MAINTRAIN ETHYLENE PRODUCTION

- 699 [40 CFR 68.71(b)] Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.71(b)]
- 700 [40 CFR 68.71(c)] Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.71(c)]
- 701 [40 CFR 68.71(c)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 702 [40 CFR 68.73(b)] Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 703 [40 CFR 68.73(c)] Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 704 [40 CFR 68.73(d)(4)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 705 [40 CFR 68.73(d)] Perform inspections and tests following recognized and generally accepted good engineering practices on process equipment listed in 40 CFR 68.73(a). Make the frequency of inspections and tests consistent with applicable manufacturer's recommendations and good engineering practices, and more frequently if determined to be necessary by prior operating experience. [40 CFR 68.73(d)]
- 706 [40 CFR 68.73(e)] Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 707 [40 CFR 68.73(f)] Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]
- 708 [40 CFR 68.75(c)] Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 709 [40 CFR 68.75(d)] Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information. [40 CFR 68.75(d)]
- 710 [40 CFR 68.75(e)] Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]
- 711 [40 CFR 68.75] Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change.
- 712 [40 CFR 68.77] Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process.
- 713 [40 CFR 68.79(c)] Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 714 [40 CFR 68.79(d)] Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

UNF0008 MAINTAIN ETHYLENE PRODUCTION

- Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(d)]
 Retain the two (2) most recent compliance audit reports. [40 CFR 68.79(e)]
- Conduct compliance audit. Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process.
- Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]
- Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]
- Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance.
- Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years.
- Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]
- Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(b)]
- Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]
- Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work, and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations.
- Obtain and evaluate information regarding the contract owner or operator's safety performance and programs, when selecting a contractor. [40 CFR 68.87(b)(1)]
- 715 [40 CFR 68.79(d)]
- 716 [40 CFR 68.79(e)]
- 717 [40 CFR 68.79]
- 718 [40 CFR 68.81(c)]
- 719 [40 CFR 68.81(e)]
- 720 [40 CFR 68.81(e)]
- 721 [40 CFR 68.81]
- 722 [40 CFR 68.81]
- 723 [40 CFR 68.83(a)]
- 724 [40 CFR 68.83(b)]
- 725 [40 CFR 68.83(c)]
- 726 [40 CFR 68.85]
- 727 [40 CFR 68.87(b)(1)]
- 728 [40 CFR 68.87(b)(2)]
- 729 [40 CFR 68.87(b)(3)]
- 730 [40 CFR 68.87(b)(4)]
- 731 [40 CFR 68.87(b)(5)]
- Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]
- Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]
- Develop and implement safe work practices consistent with Sec. 68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]
- Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

UNF0008 MAINTAIN ETHYLENE PRODUCTION

- 732 [40 CFR 68.95(a)] Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
- 733 [40 CFR 68.95(c)] Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
- 734 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: six months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 735 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 736 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 737 [40 CFR 70.6(c)(3)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 738 [40 CFR 82. Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 739 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 740 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 741 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 742 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1.-5.
- 743 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 744 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.

SPECIFIC REQUIREMENTS

AJ ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
 Activity Number: PER20080005
 Permit Number: 2031-V7
 Air - Title V Regular Permit Minor Mod

UNF0008 MAINTAIN ETHYLENE PRODUCTION

- Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
- Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these General duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- Comply with the requirements of the Nonattainment New Source Review Program. This permit includes provisions of the Nonattainment New Source Review Procedures (NNSR) from LAC 33:III.504.
- Alternate Operating Scenario:** Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years.
- Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- Submit Annual Emissions Report (TEDI): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of any upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:1.3923.

SPECIFIC REQUIREMENTS

AI ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant
Activity Number: PER20080005
Permit Number: 2031-V7
Air - Title V Regular Permit Minor Mod

UNF0008 MAINTRAIN ETHYLENE PRODUCTION

- 758 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.5107.B.6.
- Submit notification in the manner provided in LAC 33:III.5107.B.3.
- 759 [LAC 33:III.5107.B.4] Submit written report: Due to certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.vii.
- Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- Submit initial emissions inventory report: Due to the Department of Environmental Quality on or before October 1, 1994. Submit on a form or in an electronic format specified by the department and include the information specified in LAC 33:III.5307.A.1 through 7.
- Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 1st of July to the Department of Environmental Quality, Office of Environmental Services, Air Permits Division. Include the information in LAC 33:III.5307.A for the preceding calendar year.
- Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert.
- Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning.
- Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.

SPECIFIC REQUIREMENTS

AIR ID: 286 - ExxonMobil Chemical Co - Baton Rouge Chemical Plant

Activity Number: PER20080005

Permit Number: 2031-V7

Air - Title V Regular Permit Minor Mod

UNFO008 MAINTAIN ETHYLENE PRODUCTION

772 [LAC 33:III.5911.A]

Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division.

773 [LAC 33:III.5911.C]

Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate.

774 [LAC 33:III.919(D)]

Submit Emission Inventory (E1)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A.D.

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL COMPLIANCE

Certified Mail No.

Agency Interest (AI) No. 286
Activity No. PER20080006

Mr. D. L. Schuessler
Site Manager
Baton Rouge Chemical Plant
ExxonMobil Chemical Company
P.O. Box 241
Baton Rouge, LA 70821-0241

RE: Emission Reduction Credits, Use of VOC Credits for Maintrain Ethylene Production Facilities, Baton Rouge Chemical Plant, ExxonMobil Chemical Company, Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Schuessler:

By permit application dated July 10, 2008, ExxonMobil Chemical Company notified the Department that a planned modification to the Maintrain Ethylene Production Facilities would result in a projected increase of 1.95 tons and a net increase of 76.9 tons of VOC. To meet the requirements of LAC 33.III.504.M.3, the 1.95 ton VOC project increase will be offset at a 1.5 to 1.0 ratio with 2.93 tons of VOC credits. These Emission Reduction Credits (ERCs) were generated by routing the Vacuum Vent, Emission Point V-11, to the Baton Rouge Chemical Plant flare gas recovery system.

Analysis of Validity

I. LAC 33:III.607.C.1:

If the design value for the nonattainment area is above the national ambient air quality standard (NAAQS) for ozone, the department shall compare the current total point-source emissions inventory for the modeled parishes¹ to the base line inventory² [§607.C.1]. Because East Baton Rouge, West Baton Rouge, Ascension, Iberville, and Ascension Parishes remain classified as marginal ozone nonattainment areas with respect to the 8-hour ozone NAAQS, this comparison is required and is detailed as follows.

¹ *Current Total Point-Source Emissions Inventory*—the aggregate point-source emissions inventory for either NO_x or VOC from the nine modeled parishes compiled from Emission Inventory System (EIS) records and updated annually in accordance with LAC 33:III.919, plus any banked ERC and pending ERC applications originally included in the base case inventory that have not expired.

² *Base Line Inventory*—the aggregate point-source emissions inventory for either NO_x or VOC from the nine modeled parishes associated with the 2005 Attainment Plan and Transport Demonstration SIP dated December 2001, which accounts for emission reductions modeled to demonstrate attainment of the 1-hour national ambient air quality standard (NAAQS) for ozone. Separate inventories have been established for NO_x and VOC.

Mr. Schuessler
Page 2

	VOC	NO _x
Aggregate point-source emissions inventory from the nine modeled parishes. ³	11,181.96 TPY 30.62 TPD	40,406.13 TPY 110.63 TPD
Banked ERC and pending ERC applications originally included in the base case inventory that have not expired. ⁴	0.0 TPD	0.0 TPD
Current total point-source emissions inventory:	30.62 TPD	110.63 TPD
Base line inventory:	71.3 TPD	164.9 TPD

The current 2006 total point-source emissions inventory is 30.62 tons per day (TPD) for VOC and 110.63 TPD for NO_x, whereas the base line inventory is 71.3 TPD for VOC and 164.9 TPD for NO_x. Therefore, the current total point-source emissions inventory is *less than* the base line inventory for both VOC and NO_x. Thus, pursuant to LAC 33:III.607.C.4.a.ii, baseline emissions shall be the lower of actual emission or adjusted allowable emissions determined in accordance with LAC 33:III.607.C.3.

II. Per the requirements of LAC 33:III.607.B and C, the credits were reviewed to ensure they are surplus, permanent, quantifiable, and enforceable.

Permit 2314-V0, issued 02/22/2006

Emission Point	ID V-11
Hours/day:	24
Days/week:	7
Allowables Before (Tons/year)	6.56
Adjusted Allowables (Tons/year)	6.56
Actual Emissions (Tons/year) ⁵	6.45
Baseline Emissions (Tons/year)	6.45
Allowables After (Tons/year) ⁶	0.03
Creditable Change: ⁷	6.42

³ Aggregate 2006 point-source emissions from the nine modeled parishes, derived from EIS records (LAC 33:III.919). In order to be conservative, emissions from all portable sources were attributed to the nine parishes modeled.

⁴ As of December 31, 2007, all banked ERC and pending ERC applications originally included in the base case inventory have expired. ERCs have a life span of 10 years from the date of the actual emission reduction to the atmosphere and all emissions reductions included in the inventory occurred between January 1, 1990 and December 31, 1997.

⁵ Actual Emissions based on average non-toxic emissions, Emission Point V-11, Calendar Years 2006 and 2007.

⁶ Allowables After: 6.45 TPY VOC times 0.5 percent = 6.45 TPY VOC times 0.005 = 0.03 TPY VOC (Based on 99.5 percent destruction efficiency of the Flare Gas Recovery System)

⁷ Creditable Change: Baseline Emissions – Allowables After

Mr. Schuessler
Page 3

III. Summarize VOC Credits:

	VOC Balance Before	VOC Offset	VOC Balance After
Total (tons VOC)	6.42	2.93	3.49

Attached is Exxon's ERC Certificate. If you have any questions, please call Keith Jordan at (225) 219-3181.

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

Date

CSN:KAJ



Louisiana Department of Environmental Quality Emission Reduction Credit Certificate

Item Number: 286PER20080006

Owner: Baton Rouge Chemical Plant, ExxonMobil Chemical Company

Phone number: (225) 977-7333

Company Address: PO Box 241
Baton Rouge, LA 70821-0241

EMISSION REDUCTION INFORMATION

Physical Location: 4999 Scenic Highway, Baton Rouge, East Baton Rouge Parish

Method of ERC creation: Routing of the Vacuum Vent, Emission Point V-11, to the Baton Rouge Chemical Plant flare gas recovery system.

Pollutant: non-toxic VOC (tons)

Amount Generated	6.42	Amount Offset	2.93	Balance Remaining	3.49
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Date of emission reduction: May 10, 2008

Assistant Secretary

Date

ExxonMobil Chemical Company
 4999 Scenic Highway
 Baton Rouge, Louisiana 70805-3359
 P.O. Box 241
 Baton Rouge, Louisiana 70821-0241

COPY

original to TIA
JCM
 copy to Lero/Giz/c. Lu

September 23, 2008

Hand Delivered

Ms. Cheryl Nolan
 LA Dept of Environmental Quality
 Office of Environmental Services
 Air Permits Division
 P. O. Box 4313
 Baton Rouge, LA 70821-4313

RECEIVED

SEP 23 2008

LDEQ

Re: Part 70 Air Operating Permit Modification
 Air Permit Number 2031-V6, Maintrain Ethylene Production Facilities
 AI No. 286

PER 20080005

Dear Ms. Nolan:

ExxonMobil's Baton Rouge Chemical Plant (BRCP) operates the Maintrain Ethylene facilities under Part 70 Permit Number 2031-V6. A draft permit is currently at public notice and EPA review to allow the installation of additional tubes on the SACC H furnace (EQT 691; S-08, OLA-2X Steam Cracking Furnace HF-01). BRCP request a cancellation of the current draft permit and proposal of a new draft with additional conditions as described below.

BRCP submitted a construction permit to increase the number of tubes in the SACC H furnace allowing the processing of more economical feeds. Installation of additional tubes will not require any change to the permitted emissions. This project is planned to coincide with a planned routine replacement of the existing tubes, which are at the end of life and are due for replacement.

With the additional tubes, the firing rate for SACC H furnace would potentially increase, requiring VOC and NOx credits to offset or net out any increase in emissions. This project relies upon NOx credits that would have been realized when a Refinery Gas Recovery (RGR) gas turbine was replaced with an electrical motor during a third quarter 2008 maintenance turnaround (T/A). However, the RGR T/A has been postponed due to the impact of Hurricane Gustav. Hurricane Gustav forced a large number of process units to shutdown, resulting in a site-wide rescheduling of planned unit maintenance down times and loss of T/A staffing. Post-Gustav, the focus of BRCP has been on restarting units that were compelled to shutdown. This has affected the RGR T/A, which has been delayed until the first half of 2009.

BRCP requests to proceed with the installation of the additional tubes and restart of the SACC H furnace after the re-tube project. In order to ensure there is no increase in emissions, BRCP requests to add an additional permit condition to control the SACC H firing rate, and thus emissions, until the RGR gas turbine is replaced with an electrical motor and the NOx credits are available for use. The average hourly firing rate requested is 208 MMBtu, based on historical furnace usage. With this constraint, there will be no emission increase resulting from the additional tubes until the NOx reduction is achieved.

2008 SEP 23 AM 11 17
 LDEQ RECEIPT

To control the firing rate, the programming language that is used to control the furnace's firing rate will be modified to ensure that the stated firing rate limit is not exceeded. The computer system firing limit can not be overridden without an approved Management of Change order, requiring both management and environmental review and approval.

BRCP requests that the draft permit currently at public notice be withdrawn, and a new draft permit proposed with changes as described below.

BRCP requests modification of the project description to add the following paragraph:

"Hurricane Gustav resulted in process disruptions that impacted project execution schedules. The shutdown of the RGR gas turbine that generates the necessary NOx reduction for this project to net out is delayed until 1H2009. BRCP is authorized to install additional tubes on SACC H as early as 4Q08, with an enforceable condition to demonstrate that the emissions increase shall not occur until after the necessary NOx credits are generated."

Additionally, BRCP requests the following specific condition:

"1. Permittee is authorized to install additional tubes on source S-08 (EQT091), the SACC H furnace; prior to the shutdown of S-04 (EQT029), the OLA-1X Gas Turbine; subject to the following requirements:

- a. During the time period between installation of additional tubes on S-08 and shutdown of S-04, Permittee shall limit the average hourly firing rate of S-08 to 208 MMBTU/hour. Records demonstrating the actual firing rate shall be available for review by the LDEQ Surveillance Division.
- b. Permittee is authorized to remove the above restriction only upon shutdown of S-04.
- c. Within 60 days of shutdown of S-04, Permittee shall report in writing to the LDEQ Office of Environmental Services the actual average hourly firing rate of S-08 during the period from startup of S-08 after the additional tubes, to shutdown of S-04, in order to demonstrate that no emission increase above past actual operation occurred until shutdown of S-04.
- d. Should the average hourly firing rate of S-08 for the time period from startup after installation of additional tubes, to shutdown of S-04, exceed 208 MMBTU/hour, it shall be considered a violation of New Source Review and shall be reported to EPA Region 6 and LDEQ with 7 days from determination that a violation occurred. Such violation shall also be reported via the provisions of General Condition R.
- e. This condition expires upon permanent shutdown of source S-04 and submittal of the report required in item c."

Thank you in advance for an expeditious review of this request. If additional information is needed, please contact Diane Leche at 225/977-1549 or me at 225/977-0609.

Sincerely,

J. Derek Reese
Senior Section Supervisor
Permits & Compliance Coordination Section